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OCT 25 1963

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PART A

IONOSPHERIC DATA

ISSUED
OCTOBER 1963

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

CRPL-F 230
PART A

NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

Issued
18 Oct. 1963

IONOSPHERIC DATA

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IONOSPHERIC DATA

The CRPL-F series bulletins are issued as part of the responsibility of the Central Radio Propagation Laboratory for the exchange and distribution of ionospheric and related geophysical data. Part A, "Ionospheric Data," and Part B, "Solar-Geophysical Data," of the CRPL-F series present a variety of data in convenient form for use in research in radio propagation and the ionosphere and in other geophysical problems.

The current form of the tables of ionospheric data provides the monthly medians and, in addition, the number of values entering into the median determination (count) for all ionospheric characteristics listed. Also, when available, the upper and lower quartile values indicated by UQ and LQ in the tables, are listed for foF2, h'F2, h'F, and M(3000)F2. Quartile values are not listed for the other characteristics because of space limitations. The tables are prepared by IBM machine methods.

Beginning with CRPL-F221, Part A, "Ionospheric Data," the hourly median values for the graphs of critical frequencies and M(3000)F2 were plotted by machine methods instead of manually, as in earlier issues. Graphs of critical frequencies and M(3000)F2 will continue to appear. Graphs of percentage of time of occurrence for fEs and virtual heights of the regular ionospheric layers are no longer included. Data on percentage of time of occurrence of fEs above 3, 5, and 7 Mc are available from the CRPL and the IGY World Data Center for Airglow and Ionosphere.

For many years, the tables of ionospheric data appearing in the F series, Part A, listed values of medians recomputed at CRPL. While this practice enforced a certain uniformity, it was subject to some valid criticism for tampering with the original data. The tables and graphs now show the ionospheric data as they are provided by the originating laboratory. Responsibility for the accuracy and reliability of the data rests entirely with the originator.

Medians of data for the U.S. stations are computed in accordance with the recommendations of the World-Wide Soundings Committee. Data will appear in the F series, Part A, only when the complete daily-hourly tabulations have been received by the CRPL or the IGY World Data Center A for Airglow and Ionosphere.

Information on symbols, terminology, and conventions may be found in the "URSI Handbook of Ionogram Interpretation and Reduction, of the World-Wide Soundings Committee," edited by W. R. Piggott and K. Rawer (Elsevier, 1961), which supersedes previous documents. A list of symbols is available from CRPL on request.

The following table contains the latest available information on smoothed observed Zurich sunspot numbers, beginning with the minimum of April 1954. Final numbers are listed through June 1962, the succeeding values being based on provisional data.

Smoothed Observed Zurich Sunspot Number

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1954				3	4	4	5	7	8	8	10	12
1955	14	16	19	23	29	35	40	46	55	64	73	81
1956	89	98	109	119	127	137	146	150	151	156	160	164
1957	170	172	174	181	186	188	191	194	197	200	201	200
1958	199	201	201	197	191	187	185	185	184	182	181	180
1959	179	177	174	169	165	161	156	151	146	141	137	132
1960	129	125	122	120	117	114	109	102	98	93	88	84
1961	80	75	69	64	60	56	53	52	52	51	50	49
1962	45	42	40	39	39	38	36	34	32	31	30	30
1963	29	30	30									

Units of Ionospheric Data Tables

foF2, foEs - - - Tenths of a megacycle
foF1, foE - - - Hundredths of a megacycle
h'F2, h'F, h'E - Kilometers
(M3000)F2 - - - Hundredths

NOTE: Occasionally, when the median falls between two of the observed values, the median is carried an extra decimal place beyond these units. Those cases are easily identifiable by the extra digit appearing to the right of the number, in a column usually left blank.

MED - Median
CNT - Count
UQ - Upper Quartile
LQ - Lower Quartile

WORLD-WIDE SOURCES OF IONOSPHERIC DATA

THE IONOSPHERIC DATA GIVEN IN TABLES 1 TO 100 AND FIGURES 1 TO 100 WERE ASSEMBLED BY THE CENTRAL RADIO PROPAGATION LABORATORY FOR ANALYSIS, CORRELATION AND DISTRIBUTION. THE FOLLOWING ARE THE SOURCES OF THE DATA IN THIS ISSUE:

COMMONWEALTH OF AUSTRALIA, IONOSPHERIC PREDICTION SERVICE OF THE COMMONWEALTH OBSERVATORY
- HOBART, TASMANIA
- TOWNSVILLE, AUSTRALIA
- WILKES STATION, ANTARCTICA

AUSTRALIAN DEPARTMENT OF NATIONAL DEVELOPMENT, BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS
- PORT MORESBY, PAPUA

UNIVERSITY OF GRAZ
- GRAZ, AUSTRIA

BELGIAN ROYAL METEOROLOGICAL INSTITUTE
- DOURBES, BELGIUM

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- ST. JOHNS, NEWFOUNDLAND
- WINNIPEG, CANADA

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- TAIPEI (TAIWAN), CHINA

METEOROLOGICAL SERVICE OF CONGO
- LEOPOLDVILLE, CONGO

CZECHOSLOVAK ACADEMY OF SCIENCES
- PRUHONICE, CZECHOSLOVAKIA

GENERAL DIRECTION OF POSTS AND TELEGRAPHS, HELSINKI, FINLAND
- NURMIJARVI, FINLAND

THE FINNISH ACADEMY OF SCIENCES AND LETTERS
- SODANKYLA, FINLAND

IONOSPHERIC RESEARCH GROUP (GRI), FRANCE
BANGUI, CENTRAL AFRICAN REPUBLIC
POITIERS, FRANCE
TAMANRASSET, ALGERIA

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JULIUSRUH/RUGEN, GERMANY

INSTITUTE FOR IONOSPHERIC RESEARCH, LINDAU UBER NORTHEIM, HANNOVER, GERMANY
LINDAU/HARZ, GERMANY

IONOSPHERIC INSTITUTE, BREISACH, GERMANY
FREIBURG, GERMANY

ICELANDIC POST AND TELEGRAPH ADMINISTRATION
REYKJAVIK, ICELAND

INDIAN COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RADIO RESEARCH COMMITTEE, NEW DELHI, INDIA
AHMEDABAD, INDIA (PHYSICAL RESEARCH LABORATORY)
KODAIKANAL, INDIA (INDIA METEOROLOGICAL DEPARTMENT)
MADRAS, INDIA (ALL INDIA RADIO)

NATIONAL INSTITUTE OF GEOPHYSICS, CITY UNIVERSITY, ROME, ITALY
ROME, ITALY

MINISTRY OF POSTS AND TELECOMMUNICATIONS, RADIO RESEARCH LABORATORIES, TOKYO, JAPAN
AKITA, JAPAN
KOKUBUNJI, TOKYO, JAPAN
WAKKANAI, JAPAN
YAMAGAWA, JAPAN

THE ROYAL NETHERLANDS METEOROLOGICAL INSTITUTE
PARAMARIBO, SURINAM

CHRISTCHURCH GEOPHYSICAL OBSERVATORY, NEW ZEALAND DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
CAPE HALLETT (ADARE), ANTARCTICA
GODLEY HEAD (CHRISTCHURCH), N.Z.
RAROTONGA, COOK IS.
SCOTT BASE, ANTARCTICA

MANILA OBSERVATORY, PHILIPPINES
BAGUIO, LUZON

INSTITUTE OF TELECOMMUNICATION, WARSAW, POLAND
WARSAW (MIEDZESZYN), POLAND

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UNITED STATES ARMY SIGNAL CORPS., UNITED STATES OF AMERICA
ADAK, ALASKA
FT. MONMOUTH, NEW JERSEY
OKINAWA I.
WHITE SANDS, NEW MEXICO

NATIONAL BUREAU OF STANDARDS, UNITED STATES OF AMERICA (CENTRAL RADIO PROPAGATION LABORATORY)
ANCHORAGE, ALASKA
BARROW, ALASKA
HUANCAYO, PERU (INSTITUTO GEOFISICO DEL PERU)
MAUI, HAWAII
WASHINGTON, D.C.

TABLES OF IONOSPHERIC DATA

February 1963 - August 1963

TABLE

BAGUIO, LUCON (16.4N, 120.6E) TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	D	U	L	U																
	CNT	62	58	58	46	60	39	24	52	66	82	90	93	90	91	96	100	102	105	103	91	85	83	70	63
	UQ	8	8	7	3	1	1	1	25	24	21	26	20	25	25	27	26	24	25	22	24	21	13	20	15
	LQ	80	64	66	56				56	70	85	93	98	94	95	98	102	107	112	108	96	91	85	79	67
		56	56	54	47				47	63	75	85	88	84	87	90	95	95	94	96	88	76	68	63	60
h'F2	MED									265	305	325	335	345	320	315	300	280	250						
	CNT									7	13	21	19	23	24	25	22	21	17						
	UQ																								
	LQ																								
h'F	MED	255	250	225	224	241	225	240	244	225	215	210	210	200	200	200	205	220	U						
	CNT	17	17	13	8	4	3	1	27	24	21	22	18	19	16	10	6	8	240	230	220	230	240	250	255
	UQ																		19	28	28	28	26	25	23
	LQ																								
M(3000)F2	MED	U	U	U	U				U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	330	340	350	345				335	315	290	265	260	245	265	280	300	325	335	345	325	315	320	325	320
	UQ	6	6	6	1				21	21	21	23	18	25	23	26	25	23	22	21	20	21	13	13	12
	LQ	335	350	365					350	330	310	290	285	270	280	300	310	330	340	350	340	325	325	345	330
		315	335	340					330	310	275	255	230	230	265	285	290	315	315	335	320	295	305	300	310
foF1	MED										U	U	U	U	U	U	U								
	CNT										440	460	460	460	460	460	460								
											1	2	6	11	12	3	5	1							
foE	MED									U	U	U	U	U	U	U									
	CNT									285	310	350	340	350	355	340									
										1	3	2	1	2	2	1									
h'E	MED									121	118	119	119	118	117	117	117								
	CNT									1	4	3	1	2	3	3	2								
foEs	MED							27			34				40	49	50	50	41						
	CNT	23	20	16	13	8	7	3	28	26	26	26	23	26	25	27	26	25	27	28	28	28	28	28	24

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. FEBRUARY, 1963

TABLE

KODAIKANAL, INDIA (10.2N, 77.5E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	35	28	25	20	12	26	56	73	73	70	67	72	76	78	80	82	80	78	73	73	64	52	44
	CNT	28	26	26	28	28	29	28	30	30	29	28	28	28	28	27	28	29	30	30	29	26	26	27	26
	UQ																								
	LQ																								
h'F2	MED								1	300	325	355	360	360	350	340	310	285	280						
	CNT									12	20	26	28	27	26	20	16	13	5						
	UQ																								
	LQ																								
h'F	MED	220	230	235	240	250	245	265	230	210	200	195	180	180	180	165	190	210	235	255	245	230	225	230	230
	CNT	30	30	30	30	28	29	29	30	30	29	29	27	28	27	24	26	28	29	30	30	29	31	30	31
	UQ																								
	LQ																								
M(3000)F2	MED	340	340	360	330	340	340	310	325	300	275	270	260	265	270	270	280	295	295	300	305	320	330	340	340
	CNT	28	4	25	24	19	15	28	30	30	29	28	28	28	28	27	28	29	30	30	29	26	26	27	28
	UQ																								
	LD																								
foF1	MED									420	430	450	450	440	450	450	430	410							
	CNT									6	12	21	25	25	20	13	9	8	1						
foE	MED								220	270						320	300	260	220						
	CNT								10	8	3	1	1	1	4	9	10	19	15						
h'E	MED								110	105						110	110	110	120						
	CNT								19	9	3	1	1	1	4	9	11	22	20						
foEs	MED								48	86	100	98	106	103	98	91	82	G	G						
	CNT	2	1	1	1	1	1		29	30	29	29	28	28	28	27	28	29	26	30	31	28	34	36	
																				5	8	10	6	5	3

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. JANUARY, 1963

TABLE

WAKKANAI, JAPAN (45.4N, 141.7E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	39	38	40	38	36	46	63	72	81	84	88	83	80	73	77	72	59	50	48	43	43	42	39
	CNT	26	25	24	25	25	25	29	29	29	28	28	30	29	29	29	29	29	30	28	28	26	27	26	27
	UQ	43	44	42	42	42	43	50	68	77	86	92	94	87	84	78	82	80	66	56	53	50	46	43	44
	LQ	37	36	36	35	33	32	40	58	68	74	76	75	74	73	68	69	70	53	46	43	40	37	38	37
h'F2	MED								425	400	255	255	265	255	255	255	255								
	CNT								1	2	15	19	23	21	19	12	9								
	UQ																								
	LQ																								
h'F	MED	310	305	300	285	285	270	240	235	235	235	225	220	225	230	240	245	240	230	250	270	275	300	310	310
	CNT	29	29	29	29	29	29	29	29	29	23	23	23	24	24	25	25	26	28	27	27	26	26	27	29
	UQ																								
	LD																								
M(3000)F2	MED	285	290	290	300	300	310	335	345	340	335	330	330	335	335	330	335	340	335	320	310	310	295	290	285
	CNT	26	25	24	25	25	25	29	29	29	28	28	24	29	29	29	24	24	30	28	28	26	27	26	27
	UQ																								
	LQ																								
foF1	MED								340	380	400	420	420	410	410	410	395								
	CNT								6	1	9	12	14	13	11	4	1								
foE	MED								215	260	285	290	295	290	290	285	255	210							
	CNT								7	22	24	23	16	9	9	5	3	1							
h'E	MED																								
	CNT																								
foEs	MED	F					E															F			
	CNT	29	23	19	20	21	29	29	28	31	38	40	41	42	43	42	35	40	33	30	21	29	28	24	27
			29	29	29	29	29	7	16	27	27	28	29	26	27	28	29	20	24	28	29	29	29	29	24

SWEEP 1.0 MC TO 18.0 MC IN 1 MINUTE. OCTOBER, 19..

TABLE

AKITA, JAPAN (39.7N, 140.1E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	41	40	38	39	38	49	68	80	83	86	90	91	83	81	78	79	65	52	46	45	43	42	40
	CNT	27	28	29	32	31	31	31	30	29	28	29	29	29	29	31	31	31	30	26	26	25	27	25	26
	UQ	43	45	44	44	44	41	53	70	83	88	87	94	96	92	87	85	83	74	59	53	48	44	45	44
	LD	38	37	38	36	36	30	43	63	72	75	80	83	81	74	73	71	74	61	45	42	41	39	39	40
h'F2	MED								245	250	250	260	265	260	260	260	255	250							
	CNT								8	24	28	30	31	31	31	31	28	4							
	UQ																								
	LD																								
h'F	MED	300	295	285	275	255	245	240	235	230	225	210	210	215	225	230	235	240	225	240	255	270	280	295	295
	CNT	29	29	29	28	30	32	31	31	30	28	28	29	30	26	26	27	29	28	27	27	27	27	26	27
	UQ																								
	LQ																								
M(3000)F2	MED	285	285	300	295	305	300	340	350	345	340	330	330	335	330	340	340	345	345	320	310	300	290	290	290
	CNT	27	28	29	30	31	31	31	30	29	28	29	29	29	29	31	31	31	30	26	26	25	27	25	26
	UQ																								
	LQ																								
foF1	MED								395	U	400	420	U 450	U 450	U 460	U 440	U 450								
	CNT								12	2	2	4	7	8	8	4	3								
foE	MED								240	275	300	U 310	U 315	U 330	U 325	U 300	280	240							
	CNT								13	3	10	6	5	7	10	8	16	12							
h'E	MED																								
	CNT																								
foEs	MED	L	E	L	E	E	F	U					28	33	35	17	35	34	34	33	33	31	28	25	24
	CNT	30	31	31	31	31	37	30	28	31	30	31	29	29	30	31	31	30	31	31	31	29	30	30	28

SWEEP 1.0 MC TO 21.0 MC IN 20 SECONDS. OCTOBER, 1962

TABLE

KOKUBUNJI, TOKYO, JAPAN (35.7N, 139.5E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	39	35	38	38	34	33	52	72	80	82	91	96	94	91	89	82	77	72	54	44	42	40	40	40
	CNT	26	27	27	27	28	28	28	28	28	28	29	30	30	30	30	30	31	30	29	28	29	27	27	27
	UQ	40	41	41	40	39	38	56	75	87	92	96	104	101	99	97	88	86	78	58	50	46	44	44	42
	LQ	36	36	37	36	30	28	48	65	70	74	82	93	88	79	81	76	72	65	44	40	38	38	38	38
h'F2	MED								245	240	250	260	260	255	260	255	255	250	E 250						
	CNT								3	14	23	27	28	28	28	29	25	8	4						
	UQ																								
	LQ																								
h'F	MED	300	300	280	280	255	295	245	230	225	225	230	250	245	230	240	240	230	225	220	255	260	300	300	300
	CNT	21	26	29	28	27	26	27	27	25	22	23	22	20	19	21	20	23	25	25	21	24	26	21	22
	UQ																								
	LQ																								
M(3000)F2	MED	295	290	300	300	305	300	330	335	340	335	320	320	320	320	325	330	335	340	335	310	300	300	295	295
	CNT	24	25	26	25	25	23	27	25	26	27	28	29	28	30	30	29	30	28	25	24	23	22	25	22
	UQ																								
	LQ																								
foF1	MED										450	U 480	460	U 450	U 480	U 450									
	CNT										1	4	4	3	2	2									
foE	MED							U 175	U 250	U 280	U 300	U 290			315	U 295	U 265	230							
	CNT							1	10	8	2	1			1	1	3	3							
h'E	MED																								
	CNT																								
foEs	MED	25	21	22	E	24	23	28	28	34	40	48	49	49	43	46	48	38	36	30	35	32	37	30	28
	CNT	19	25	23	25	25	16	9	15	14	12	11	13	13	13	12	16	15	15	14	17	20	20	21	19

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS. OCTOBER, 1962

TABLE

YAMAGAWA, JAPAN (31.2N, 130.6E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 37	37	36	28	33	30	36	62	76	80	87	98	104	103	109	104	90	77	66	54	U 46	U 41	38	36
	CNT	19	23	27	26	28	30	30	29	29	30	31	30	30	30	31	31	30	30	30	26	24	21	23	22
	UQ	39	39	40	39	36	35	42	64	82	93	93	108	113	114	122	116	100	90	78	59	52	44	44	40
	LQ	34	35	34	34	31	27	31	60	68	76	78	90	96	95	102	93	79	72	61	49	42	38	36	35
h'F2	MED								290	270	250	265	280	270	280	280	260	250	255						
	CNT								1	4	13	27	29	30	30	30	21	11	1						
	UQ																								
	LQ																								
h'F	MED	300	305	290	285	260	E 290	260	235	240	235	225	225	240	240	240	245	240	240	230	240	260	280	300	295
	CNT	31	31	29	28	27	26	30	30	30	29	30	27	28	25	29	28	28	31	30	27	28	28	28	29
	UQ																								
	LQ																								
M(3000)F2	MED	U 290	290	305	305	310	295	310	345	345	340	325	320	315	310	320	330	340	340	335	320	U 300	U 300	300	290
	CNT	19	23	27	28	28	30	30	29	29	30	31	30	30	30	31	31	30	30	30	26	24	21	23	22
	UQ																								
	LQ																								
foF1	MED									420	430	440	480	470	470	470	450								
	CNT									1	4	8	11	7	13	6	5								
foE	MED								200	250	290	310	315	320	320	315	300	260	210						
	CNT								21	28	27	28	22	18	20	25	29	23	7						
h'E	MED																								
	CNT																								
foEs	MED	24	24	24	22	23	24	22	21	29	35	35	37	38	37	34	29	31	30	30	29	30	27	28	24
	CNT	24	17	13	14	13	5	8	29	30	31	31	30	30	30	31	31	31	29	24	24	22	23	21	21

SWEEP 1.0 MC TO 20.0 MC IN 20 SECONDS. OCTOBER, 1962

TABLE 7

ADAK, ALASKA (51.9N, 176.6W) TIME 180.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	33	32	28	28	26	34	41	45	47	50	48	49	50	50	48	47	48	47	47	49	54	52	45	38
	CNT	25	22	23	24	28	29	31	30	31	30	31	29	31	31	31	29	30	31	31	31	31	30	29	28
	UQ	37	34	31	31	30	35	44	50	55	55	55	55	55	53	52	50	50	51	50	53	59	56	50	42
	LQ	30	27	26	24	24	31	36	40	43	43	45	45	44	44	44	44	45	43	44	47	50	45	40	34
h'F2	MED						U 415	400	370	375	363	380	380	405	392	392	358	322	305	286					
	CNT						7	23	29	31	30	30	28	31	30	30	28	21	17	16	4				
	UQ						769	520	492	455	460	585	470	570	508	495	438	353	340	312					
	LQ						335	320	330	311	305	335	335	345	335	325	312	300	274	270					
h'F	MED	270	275	286	U 284	E 290	U 255	231	216	U 212	E 203	199	192	197	203	210	210	220	U 230	U 244	254	250	245	245	250
	CNT	31	29	30	30	31	31	30	27	30	28	29	28	30	30	31	29	29	28	26	30	31	31	31	31
	UQ	280	288	300	301	310	265	240	229	220	218	207	201	208	213	219	218	235	243	264	270	265	259	265	270
	LQ	240	264	268	265	265	245	225	210	205	195	190	184	189	190	203	200	210	225	239	245	238	235	228	228
M(3000)F2	MED	300	300	290	290	295	280	295	300	300	300	300	290	290	285	300	310	315	320	320	320	315	310	310	310
	CNT	24	20	19	22	24	29	31	29	31	30	30	29	31	29	30	29	29	31	31	31	31	30	28	26
	UQ	310	310	310	300	305	310	315	310	315	320	320	310	310	315	320	325	330	330	330	325	325	325	325	320
	LQ	290	290	290	285	280	270	260	260	265	275	270	240	245	260	255	280	295	305	315	310	310	295	300	300
foF1	MED							290	320	390	400	410	420	420	420	420	400	390	370						
	CNT							7	16	26	27	29	27	30	28	30	21	13	5						
foE	MED							185	220	U 270	U 285	300		320	U 310	300	300	U 270	U 240	205					
	CNT					4		6	7	11	7	5	4	6	11	10	12	15	14	8	2				
h'E	MED					E 130	124	110	105	102	101	102	102	102	103	105	105	105	108	115	120				
	CNT					7	18	30	31	31	30	31	31	31	31	30	30	26	24	28	9				
foEs	MED	15	13	U 17	20	20	21	26	29	33	35	34	34	35	32	32	30	30	27	28	26	33	31	25	15
	CNT	27	25	17	22	28	31	31	31	31	31	31	31	31	31	31	31	30	31	31	30	26	26	29	23

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. AUGUST, 1962

TABLE 8

MAUI, HAWAII (20.8N, 156.5W) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 48	48	42	38	33	30	32	48	55	58	68	75	84	91	98	101	104	109	95	76	59	50	50	48
	CNT	22	25	25	28	29	29	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	30	28	24
	UQ	52	56	53	41	38	32	35	52	60	65	74	80	90	103	103	107	113	118	114	90	66	58	54	54
	LQ	43	43	40	32	27	27	31	47	50	55	57	65	79	86	87	89	95	90	78	65	49	45	43	44
h'F2	MED								280	290	370	405	400	380	355	340	330	300	270	245					
	CNT								12	20	23	29	28	31	31	31	31	31	31	29	3				
	UQ								295	350	435	500	425	415	385	380	340	310	285	265					
	LQ								255	265	325	360	380	365	340	320	310	280	255	235					
h'F	MED	E 275	E 260	235	230	250	240	E 255	220	210	200	E 200	200	200	205	E 220	215	215	220	220	220	E 230	250	E 275	E 280
	CNT	30	30	30	30	30	30	30	28	28	28	25	23	22	20	21	21	20	22	21	28	28	27	27	26
	UQ	295	275	250	260	265	260	265	230	220	210	210	205	210	205	220	230	220	230	230	230	220	235	260	255
	LQ	265	245	225	215	230	230	235	210	205	190	190	190	190	190	200	210	210	215	215	215	220	235	260	255
M(3000)F2	MED	305	315	330	340	325	330	330	325	325	280	265	270	275	285	290	300	315	330	345	340	310	310	300	300
	CNT	21	22	25	25	27	26	30	31	31	31	31	30	31	31	31	31	31	31	31	30	31	30	24	22
	UQ	315	325	350	360	340	345	340	345	340	300	280	275	280	290	305	305	325	340	355	355	335	315	310	310
	LQ	290	305	315	310	315	310	315	310	285	265	250	260	265	275	275	290	305	325	330	325	305	295	290	295
foF1	MED													400	430	450	450	450	450	450	440	420	400		
	CNT													7	15	24	26	27	27	25	26	27	6		
foE	MED								210	270	305	D 320	U 345	U 355	350	340	325	D 300	260	210					
	CNT				1	3	1	2	19	16	19	12	10	11	11	17	20	22	22	12					
h'E	MED									105	105	105	105	103	103	103	105	U 105	E 108	115					
	CNT				1	4	5	13	26	30	31	31	30	30	30	30	29	28	26	21	2				
foEs	MED	28	26	23	22	22	22	21	25	32	38	38	40	42	42	41	38	37	35	32	31	27	31	33	32
	CNT	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30

SWEEP 0.25 MC TO 20.0 MC IN 27 SECONDS. AUGUST, 1962

TABLE 9

WASHINGTON, D.C. (38.7N, 77.1W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	43	37	34	30	28	31	39	45	50	50	52	54	51	52	54	53	54	56	59	59	60	57	49	45
	CNT	30	30	30	28	29	31	29	31	30	31	31	30	31	31	30	30	31	31	31	31	31	31	30	31
	UQ	45	42	39	34	34	33	42	49	54	55	56	55	54	54	57	58	59	60	62	65	65	60	53	50
	LQ	35	31	27	26	23	28	36	42	45	46	49	50	48	49	50	50	52	53	55	56	55	51	44	34
h'F2	MED							U 332	380	430	455	370	360	390	405	380	370	350	320	300	280				
	CNT							8	19	29	30	24	29	28	28	28	30	31	30	30	25				
	UQ							540	470	435	410	470	420	420	455	410	420	375	350	310	260				
	LQ							230	320	310	320	350	330	345	380	350	340	325	305	280	240				
h'F	MED	250	260	265	255	U 260	U 245	225	215	205	200	190	F 195	195	190	200	200	210	215	220	E 245	235	245	250	260
	CNT	31	30	30	26	25	31	27	28	26	28	26	28	30	27	27	29	27	27	24	21	21	31	31	31
	UQ	280	275	280	280	295	280	250	225	220	210	215	205	205	215	210	215	215	230	230	210	250	260	270	280
	LQ	250	250	260	254	240	254	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	240	244
M(3000)F2	MED	305	310	310	310	310	330	320	310	310	310	295	300	285	285	290	300	295	300	310	315	310	310	310	300
	CNT	27	26	26	25	24	31	26	28	26	30	29	29	29	24	27	27	23	30	30	24	23	30	28	29
	UQ	310	310	310	310	325	330	334	315	314	310	315	310	310	295	315	320	310	315	320	320	320	314	310	310
	LQ	300	300	300	300	300	310	310	295	294	290	275	280	280	271	280	285	290	295	300	310	310	310	300	300
foF1	MED							340	370	410	430	440	470	450	450	440	440	420	400						
	CNT							F 17	24	26	30	24	24	30	31	26	24	30	27	4					
foE	MED							210	U 250	295	310	[illegible]	435	345	340	335	335	305	280	240	U 170				
	CNT							2	10	21	17	15	15	17	14	15	14	[illegible]	[illegible]	[illegible]	[illegible]				
h'E	MED							113	105	103	103	101	101	101	101	103	102	101	101	103	U 121				
	CNT							3	27	24	31	31	33	[illegible]	[illegible]	31	31	31	29	31	31				
foEs	MED	36	35	36	38	38	22	25	32	38	43	45	40	40	40	40	43	38	36	35	45	42	34	40	32
	CNT	18	19	19	17	14	[illegible]	20	24	31	31	33	34	31	30	31	31	31	31	31	33	25	[illegible]	24	19

SWEEP 1.0 MC TO 25.0 MC IN [illegible] SECONDS. JULY, 1962

TABLE 10

REYKJAVIK, ICELAND (64.1N, 21.8W) TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D	D	U 41	43	42	44	44	45	48	51	53	53	52	53	52	53	53	52	51	49	51	D 45	D 49	D 42
	CNT	4	8	12	14	15	15	21	22	20	23	23	22	22	24	23	23	23	23	24	23	15	17	10	8
	UQ	40	44	43	45	47	46	49	49	50	55	56	57	55	55	55	55	56	55	53	53	58	50	50	45
	LQ	31	34	38	40	40	41	42	44	45	47	49	50	51	50	50	50	51	49	50	47	45	43	42	39
h'F2	MED						U 315	355	410	370	380	360	360	385	360	370	375	355	350	330	330	U 310			
	CNT				1	4	6	15	17	16	19	22	20	18	22	21	21	21	21	19	17	8			
	UQ					400	380	420	480	440	470	410	385	420	400	405	400	400	390	370	365	350			
	LQ					330	300	330	325	355	330	320	335	340	340	355	345	340	325	300	300	290			
h'F	MED	U 270	285	E 325	280	240	220	220	220	205	210	210	200	210	200	200	210	210	225	E 230	240	245	275	270	U 270
	CNT	6	12	14	15	14	16	20	22	19	19	20	22	17	21	18	20	21	20	18	20	16	19	12	9
	UQ	280	355	350	320	260	245	240	225	215	220	215	220	210	210	210	220	230	240	265	275	260	310	295	310
	LQ	240	270	280	245	230	220	210	210	200	200	200	200	200	200	200	200	200	210	220	230	230	240	250	255
M(3000)F2	MED			U 310		295	310	300	294	290	305	295	300	290	300	300	300	300	300	310	310	U 315	U 310		
	CNT		1	4	11	13	11	18	21	17	18	21	21	18	21	21	20	22	22	23	20	10	5	3	
	UQ			305	310	310	320	315	320	300	315	310	310	310	310	305	310	310	325	325	315	325	320	320	
	LQ			290	290	285	300	285	270	280	280	280	280	275	290	290	295	310	310	310		310	310	310	
foF1	MED							U 370	400	410	420	430	435	440	440	440	430	420	420	395	380				
	CNT					1	2	16	17	18	19	20	22	18	20	17	20	21	20	8	6	1			
foE	MED						U 235	D 230	U 280	D 290	D 290	D 300	D 295	D 292	U 310	D 300	D 295	D 285	D 270	D 260	D 230				
	CNT					4	5	11	13	15	13	15	11	13	12	10	12	16	17	11	8	1	1		
h'E	MED					4	119	114	108	107	107	105	105	104	105	105	103	107	111	111	113				
	CNT					4	5	14	14	15	14	15	17	14	15	11	13	17	19	14	10	3	1		
foEs	MED	37	32	36	40	25	19	20	22	30	21	21	22	33	21	21	22	34	36	38	34	36	38	38	34
	CNT	19	20	23	23	25	19	20	22	18	21	21	22	19	21	21	22	24	23	24	23	20	24	22	15

SWEEP 1.0 MC TO 25.0 MC IN 16.2 SECONDS. JUNE, 1962

[illegible] 11

FT. MONMOUTH, NEW JERSEY (40.4N, 74.1W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	44	40	38	35	31	37	46	50	52	57	56	57	58	59	60	60	62	63	65	67	66	61	56	49
	CNT	30	27	25	25	27	29	26	29	28	28	28	29	30	32	29	30	30	29	29	30	30	29	28	26
	UQ	43	42	40	38	33	39	48	54	56	60	61	62	63	66	70	73	74	76	80	84	71	66	59	53
	LQ	40	36	34	31	28	35	42	46	48	50	52	52	55	54	56	57	58	60	62	64	52	58	[illegible]	42
h'F2	MED							336	345	360	338	370	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	210	203					
	CNT					2	16	28	28	28	28	27	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	UQ					387	378	430	426	412	420	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	LQ					298	306	332	314	340	324	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
h'F	MED	27	U 30	U 280	E 288	U 270	E 248	222	E 218	208	C 210	194	192	U 200	200	200	210	211	221	[illegible]	[illegible]	246	254	262	265
	CNT	30	30	29	28	29	28	26	29	27	28	25	28	29	30	28	29	[illegible]	[illegible]	[illegible]	[illegible]	30	30	30	29
	UQ	285	300	295	304	298	296	230	227	225	220	206	209	228	215	213	225	221	240	260	264	268	265	274	277
	LQ	260	270	270	264	260	240	212	213	200	200	184	182	185	190	190	211	[illegible]	215	229	256	234	243	246	245
M(3000)F2	MED	290	290	290	U [illegible]	314	315	310	318	295	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	29	27	25	[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	310	310	305	310	315	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	285	285	285	290	300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
foF1	MED							370	430	425	440	440	440	440	460	460	465	[illegible]	[illegible]						
	CNT						1	11	24	24	[illegible]	[illegible]	28	[illegible]	[illegible]	29	29	[illegible]	[illegible]						
foE	MED						U 240	274	U [illegible]	U [illegible]	[illegible]			U [illegible]	[illegible]	340	335	[illegible]	275	210					
	CNT					4	7	15	[illegible]	[illegible]	[illegible]	3	4	[illegible]	[illegible]	14	14	[illegible]	[illegible]	[illegible]					
h'E	MED						U 127	110	104	108	105	105	105	108	105	107	104	111	110	115					
	CNT						16	26	30	29	30	29	29	28	26	28	28	[illegible]	[illegible]	[illegible]	[illegible]	1			
foEs	MED	[illegible]	[illegible]	[illegible]	[illegible]	32	[illegible]	26	34	35	43	39	33	44	44	41	39	33	32	31	34	38	38	43	34
	CNT	18	[illegible]	[illegible]	[illegible]	18	29	26	30	29	30	29	32	30	[illegible]	25	25	[illegible]	30	30	30	24	21	24	[illegible]

SWEEP 1.0 MC TO 29.0 MC IN 27 SECONDS. [illegible] 1962

TABLE [illegible]

WHITE SANDS, NEW MEXICO (32.3N, 106.5W) TIME 105.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	41	40	38	38	36	39	51	59	60	58	62	68	73	76	79	78	74	71	73	78	68	53	45	42
	CNT	23	22	20	24	28	29	31	34	30	29	30	[illegible]	29	30	29	30	30	29	30	31	29	28	26	27
	UQ	46	46	44	42	42	42	55	64	70	72	72	80	84	85	84	84	82	81	81	81	76	60	50	46
	LQ	37	35	34	35	33	36	45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	86	86	86	86	84	82	82	82	69	67	67	65
h'F2	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	CNT							10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
	UQ							[illegible]	342	356	345	405	394	370	400	354	331	318	304	270					
	LQ							244	[illegible]	[illegible]	[illegible]	310	335	[illegible]	[illegible]	[illegible]	[illegible]	298	286	[illegible]					
h'F	MED	[illegible]	[illegible]	[illegible]	[illegible]	268	267	234	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
M(3000)F2	MED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CNT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	UQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	LQ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
foF1	MED								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
foE	MED							U [illegible]	U [illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
h'E	MED							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	CNT							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
foEs	MED	37	30	27	28	28	24	27	36	41	43	44	46	41	42	42	44	44	38	40	41	39	37	40	36
	CNT	25	24	27	28	24	25	31	31	31	31	31	31	31	[illegible]	30	30	30	30	30	31	27	27	28	28

SWEEP 1.0 MC TO 25.0 MC IN 7 SECONDS. MAY, 1962

TABLE 13

BARROW, ALASKA (71.3N, 156.8W) TIME 150W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 36	U 34	U 34	U 33	U 36	40	U 40	U 39	40	42	42	43	43	46	47	48	47	46	46	42	40	36	36	U 34
	CNT	13	10	10	15	12	8	9	9	10	13	17	15	19	20	25	28	23	25	25	24	22	18	16	15
	UQ	42	43	44	46	38	46	45	42	42	44	45	46	45	48	50	52	53	50	50	46	45	41	39	40
	LQ	33	32	29	29	33	36	34	36	36	38	38	42	40	45	45	45	45	43	42	38	36	32	33	29
h'F2	MED							U 420		U 525	485	470	430	440	460	425	400	380	410	380					
	CNT						3	5	3	8	12	14	14	17	20	25	23	18	10	10					
	UQ							500		585	570	660	560	665	500	465	500	430	440	415					
	LQ							340		415	440	480	460	415	420	375	340	340	350	330					
h'F	MED	U 315	320	312	320	300	300	310	U 330	U 280	270	250	230	240	230	230	245	235	250	250	270	280	310	U 330	U 310
	CNT	16	15	12	16	16	14	10	8	9	11	16	13	18	20	25	26	23	25	25	27	22	18	19	22
	UQ	360	345	340	345	335	340	330	440	340	350	260	250	260	250	245	250	250	240	280	320	350	340	355	375
	LQ	280	270	290	295	295	280	265	275	295	210	220	210	225	215	220	225	230	230	250	295	255	275	290	280
M(3000)F2	MED	U 295	U 290	U 295	U 280	U 295	U 280	U 280	U 275	245	260	240	260	250	260	275	280	290	285	295	305	310	300	290	U 294
	CNT	11	7	5	10	10	6	8	5	10	13	17	13	18	20	25	26	25	25	24	21	20	14	12	11
	UQ	305	305	300	295	305	295	300	305	280	270	260	270	270	270	280	300	305	300	310	310	315	315	300	310
	LQ	280	285	285	275	285	265	270		230	230	220	240	225	250	260	260	270	275	290	300	305	295	280	280
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	55	47	43	33	32	25	25	42	38	40											30	30	30	30
	CNT	26	25	26	24	25	23	23	21	20	24	25	21	18	20	25	27	24	26	28	28	27	29	28	28

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. APRIL, 1962

TABLE 14

SODANKYLA, FINLAND (67.4N, 26.6E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	41	39	30	33	34	35	39	44	50	50	55	55	57	60	57	56	53	55	52	49	50	45	43	43
	CNT	11	11	9	15	14	20	21	25	23	25	25	28	27	22	27	26	29	26	28	23	19	14	11	9
	UQ	43	42	35	35	35	38	43	48	55	58	61	64	65	66	64	62	62	62	57	53	53	50	48	45
	LQ	37	31	27	30	29	28	34	38	41	43	45	45	49	51	49	53	47	48	45	43	41	38	37	34
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	300	320	298	300	290	265	240	222	210	215	210	208	200	200	208	210	220	225	240	247	260	260	275	300
	CNT	21	21	20	23	22	23	24	26	27	27	26	28	27	26	26	28	30	27	29	26	26	22	20	19
	UQ	350	340	335	330	320	290	260	240	220	220	220	220	220	220	215	220	225	230	255	260	290	290	315	350
	LQ	280	290	285	290	280	245	235	210	200	200	200	200	200	200	200	200	210	215	228	240	250	250	260	265
M(3000)F2	MED	272	280	280	275	280	290	295	290	290	290	290	290	300	300	300	305	300	305	310	300	295	300	285	275
	CNT	10	9	9	14	14	20	21	23	21	24	24	28	27	22	26	24	27	26	28	22	19	11	9	9
	UQ	275	284	285	285	290	293	300	300	300	298	297	302	310	305	310	310	305	310	315	310	300	305	292	285
	LQ	270	273	268	270	270	280	285	275	275	273	278	275	280	290	290	295	290	300	300	290	290	295	275	270
foF1	MED						290	350	370	350	400	410	410	410	410	410	400	370	350						
	CNT						1	5	9	10	20	22	24	22	18	16	8	6	1						
foE	MED			130	150	155	185	208	230	260	280	290	300	305	300	290	280	270	250	220	200	160	130	120	
	CNT			1	2	8	12	14	21	22	26	22	20	24	19	18	21	25	21	18	16	11	5	2	
h'E	MED				148	115	120	112	110	110	110	110	110	105	105	110	110	110	110	110	118	120	120	152	
	CNT				2	7	12	14	21	22	26	21	20	24	20	21	19	25	21	19	16	11	5	2	
foEs	MED	28	25	23	23	23	28	30	33	35	40	40	40	40	44	39	35	40	33	32	30	24	26	32	30
	CNT	21	27	24	21	23	19	10	6	8	8	12	10	1	2	4	10	12	9	11	15	17	19	20	21

SWEEP 1.4 MC TO 22.0 MC IN 8 MINUTES, AUTOMATIC. APRIL, 1962

TABLE 15

PRUHONICE, CZECHOSLOVAKIA (50.0N, 14.6E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	39	38	35	34	34	40	48	50	61	62	64	63	65	64	66	64	63	60	59	57	51	46	43	40
	CNT	20	21	21	22	21	21	20	19	21	22	21	20	21	21	23	23	22	22	21	21	20	22	21	19
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	285	280	270	260	260	250	225	220	205	205	200	200	200	210	215	225	225	240	230	240	240	250	270	290
	CNT	20	21	20	22	22	21	21	20	22	23	22	21	20	20	22	21	21	22	20	21	18	20	20	12
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E		E	E	E	E	E	E	E	E	E	E	E	E	E						
	CNT	9	21	20	21	2	15	21	20	22	23	22	22	21	21	23	22	22	22	2	1			2	1

SWEEP 1.0 MC TO 18.0 MC. APRIL, 1962

TABLE 16

SOTTENS, SWITZERLAND (46.6N, 6.7E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	41	38	38	37	34	37	42	46	55	58	61	63	65	66	67	67	66	59	57	U 56	U 51	44	41
	CNT	28	28	29	30	29	29	28	28	22	24	24	27	27	26	29	30	29	30	30	28	28	28	25	26
	UQ																								
	LQ																								
h'F2	MED									320	315	310	320	300	305	310	300	280	290						
	CNT								3	7	18	19	25	24	23	26	28	26	11	1					
	UQ																								
	LQ																								
h'F	MED	290	300	300	300	280	275	260	250	230	215	210	200	200	200	210	220	225	225	250	250	240	250	250	280
	CNT	30	30	30	30	30	28	28	28	25	30	28	28	29	28	28	30	28	29	30	30	30	30	29	26
	UQ																								
	LQ																								
M(3000)F2	MED	290	285	290	290	290	290	315	320	330	320	315	305	305	310	310	320	330	325	330	330	325	310	310	295
	CNT	23	25	26	30	27	29	27	23	15	20	21	26	23	26	26	29	26	27	24	17	12	14	13	20
	UQ																								
	LQ																								
foF1	MED									380	425	425	440	460	450	440	440	410	395						
	CNT								2	5	18	18	23	22	17	15	19	15	8						
foE	MED								220	250	280	305	320	325	330	320	300	290	270	220					
	CNT								7	8	30	20	19	19	20	21	21	23	24	20					
h'E	MED								115	110	100	100	100	100	100	110	110	110	120						
	CNT								7	7	30	27	29	25	26	27	27	24	23						
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. APRIL, 1962

TABLE 17

WHITE SANDS, NEW MEXICO (32.3N, 106.5W) TIME 105.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	40	40	39	36	37	46	58	64	68	70	72	81	84	85	82	76	73	70	67	54	45	43	42
	CNT	29	29	29	28	27	27	28	29	28	29	29	29	28	30	30	30	30	30	29	30	29	28	29	27
	UQ	46	44	44	44	39	41	50	63	71	73	76	80	86	94	90	87	82	80	80	73	59	52	48	46
	LQ	38	36	37	37	34	33	43	52	58	59	62	66	74	79	78	76	72	66	64	61	50	40	40	38
h'F2	MED								278	290	300	323	330	327	313	300	290	276	265						
	CNT							1	16	25	29	28	29	28	30	30	29	26	20						
	UQ								314	304	324	342	360	346	331	310	300	286	277						
	LQ								266	280	286	310	317	319	300	294	280	270	259						
h'F	MED	E				E																			
	CNT	297	283	286	275	268	281	250	235	224	214	207	203	200	214	220	220	220	236	244	227	223	250	275	286
	UQ	30	30	30	29	29	28	28	29	28	26	27	29	27	30	28	28	27	26	29	30	29	29	24	29
	LQ	310	305	300	292	298	304	261	242	230	220	215	214	220	222	230	229	230	243	250	231	248	276	290	306
		278	270	272	257	256	270	245	232	220	200	200	195	194	209	210	215	212	225	240	221	220	240	266	270
M(3000)F2	MED	285	290	290	295	290	290	315	325	320	310	300	290	290	300	305	315	320	325	330	330	320	290	290	280
	CNT	29	28	29	28	26	26	28	29	28	29	29	29	28	30	30	30	30	30	29	30	29	28	29	27
	UQ	290	295	295	300	305	300	320	335	330	325	305	300	300	310	310	320	330	330	340	340	330	300	295	295
	LQ	275	280	280	285	280	280	310	310	310	300	290	280	280	290	300	305	310	320	320	325	310	290	280	275
foF1	MED									420	440	460	470	470	475	460	460	U 410							
	CNT								4	12	15	21	28	27	28	24	19	5	1						
foE	MED							195	U 250	290	U 310	U 330	U 330	U 345	U 340	U 330	U 320	U 295	U 260	185					
	CNT							9	19	21	17	15	8	6	9	11	20	16	18	8					
h'E	MED						E			110	109	108	108	109	108	110	109	109	112	U 124					
	CNT						140		113																
							17		29	29	29	29	28	28	29	25	27	27	28	17					
foEs	MED					23	34		26	32	35	37	37	35	O 33	O 31	32	31	28	22	24	33	U 27		
	CNT	19	24	26	24	13	10	28	30	29	29	29	29	29	30	30	30	30	30	28	13	12	-	12	12

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. APRIL, 1962

TABLE 18

PORT MORESBY, PAPUA (9.4S, 147.1E) TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
foF2	MED	65	68	56	36	30	27	36	69	90	103	113	114	115	127	120	112	107	108	105	100	U 92	U 78	63	63	
	CNT	25	26	26	26	25	25	24	24	23	25	24	27	27	28	27	26	27	28	29	27	28	27	26	27	
	UQ																									
	LQ																									
h'F2	MED																									
	CNT																									
	UQ																									
	LQ																									
h'F	MED	220	210	200	E 200	E	E		250	220	210	200	195	180	180	190	200	195	200	215	220	230	210	200	230	240
	CNT	20	20	22	16	13	11	14	22	19	20	17	16	17	16	13	12	15	17	21	22	25	22	18	20	
	UQ																									
	LQ																									
M(3000)F2	MED	325	330	360	320	310	305	320	350	350	340	350	330	320	330	330	320	320	320	325	320	U 325	U 325	320	315	
	CNT	24	25	25	26	25	25	24	24	23	25	24	27	27	27	27	26	27	28	29	27	28	27	26	26	
	UQ																									
	LQ																									
foF1	MED									420	460	470	480	480	480	470	450	420								
	CNT									7	20	21	25	24	23	18	15	8	1							
foE	MED								205	270	310	335	350	365	350	340	310	285	240							
	CNT							2	16	18	23	21	19	22	21	20	16	16	17	2						
h'E	MED								100	100	100	100	100	100	100	100	100	100	100							
	CNT							2	12	14	21	21	18	21	21	19	15	15	13							
foEs	MED																									
	CNT																									

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. APRIL, 1962

TABLE 19

HUANCAYO, PERU (12.0S, 75.3W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	75	70	60	48	42	37	43	75	92	99	95	89	87	90	97	100	100	100	93	85	85	90	88	82
	CNT	23	24	25	23	27	29	29	30	30	30	27	25	25	28	28	28	28	28	28	23	20	17	19	23
	UQ	86	76	66	54	48	46	48	79	95	102	103	94	91	94	104	109	108	110	102	98	93	94	91	90
	LQ	65	58	52	43	37	28	38	71	88	92	88	82	82	90	92	94	93	93	88	77	80	85	85	72
h'F2	MED													U 330		U 295									
	CNT										1		1	6	3	5									
	UQ													335		315									
	LQ													315		290									
h'F	MED	220	220	225	235	245	255	265	240	225	215	210	200	200	200	200	195	205	245	275	310	280	245	220	220
	CNT	30	30	29	30	30	30	30	30	30	30	27	25	25	28	28	27	27	28	28	25	19	22	28	29
	UQ	225	225	235	250	255	270	280	240	230	215	210	205	200	200	200	200	215	250	280	335	315	255	230	225
	LQ	215	210	220	230	235	240	255	235	220	215	205	200	195	195	195	190	195	240	255	285	260	235	215	215
M(3000)F2	MED	330	330	330	330	325	330	310	320	300	270	255	255	250	255	260	260	260	255	255	250	270	295	310	320
	CNT	23	24	24	23	25	29	29	30	30	30	25	23	25	28	28	28	28	28	27	22	16	17	16	22
	UQ	335	335	335	335	335	340	320	335	315	280	265	265	260	260	270	275	270	265	265	265	280	305	325	330
	LQ	320	330	325	315	310	310	300	315	290	255	250	250	240	250	260	255	250	245	240	240	250	285	300	320
foF1	MED														1										
	CNT																								
foE	MED							E	230	U 285	U 320	U 340	U 355	U 360	U 350	U 340	U 320	U 280	U 240	U 140					
	CNT							15	26	30	30	26	25	25	27	26	28	28	22	12					
h'E	MED							E	121	113	110	106	105	103	105	105	107	107	115	E 169					
	CNT							22	28	28	28	24	22	22	26	28	27	27	28	13					
foEs	MED	42	40	37	35	40	40	42	48	72	85	90	92	90	90	90	81	74	68	42		35	34	38	33
	CNT	29	30	29	30	30	30	30	30	30	30	25	23	25	28	28	28	28	28	26	20	17	24	27	23

SWEEP 1.0 MC TO 25.0 MC IN 1 MINUTE 48 SECONDS. APRIL, 1962

TABLE 20

SODANKYLA, FINLAND (67.4N, 26.6E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	31	34	32	31	21	27	32	38	44	49	52	55	56	58	59	57	58	56	52	50	50	42	38	37
	CNT	5	4	3	3	3	3	5	15	26	29	31	31	31	31	31	29	26	27	25	13	10	8	6	6
	UQ	39	36	33	32	23	30	41	43	46	53	57	61	61	63	63	62	62	61	60	58	56	47	43	42
	LQ	29	29	28	29	18	20	31	34	38	45	48	49	50	52	51	53	51	49	46	41	40	38	36	32
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	300	300	305	310	300	295	280	240	230	215	210	210	210	210	215	218	225	233	230	237	245	240	270	290
	CNT	24	23	25	25	26	25	40	29	30	31	31	31	31	31	31	30	31	30	29	28	25	25	27	24
	UQ	325	370	330	320	310	320	300	260	240	230	220	215	210	210	220	225	240	240	238	265	270	280	310	305
	LQ	267	280	288	290	290	270	260	240	220	200	200	200	200	200	210	210	220	220	230	230	228	230	240	255
M(3000)F2	MED	275	280	277	265	275	290	295	308	305	315	310	310	312	310	313	315	315	315	310	305	300	300	290	283
	CNT	5	3	2	3	3	8	15	26	29	31	31	31	30	31	30	29	26	26	25	12	10	8	5	6
	UQ	278	280		270	283	293	300	310	320	320	320	320	320	320	320	320	320	320	320	312	305	303	298	285
	LQ	273	272		262	272	275	290	300	300	300	295	300	305	305	310	310	310	310	305	300	295	295	290	275
foF1	MED																								
	CNT										370	380	400	390	390	380									
											1	2	5	6	2	-									
foE	MED										140	155	180	210	240	290	255	270	270	255	250	225	200	180	145
	CNT										2	8	23	25	25	26	30	25	27	28	27	23	21	15	6
h'E	MED										112	117	115	110	110	110	110	108	110	110	110	115	120	123	132
	CNT										2	8	23	22	27	27	28	24	28	29	27	23	20	14	6
foEs	MED	25	23	20	22	22	16	24	23	30	32	32	33	34	32	33	31	31	30	25	24	23	24	24	24
	CNT	20	21	28	30	23	18	17	8	16	17	16	14	11	6	8	17	18	18	15	21	18	16	19	20

SWEEP 1.4 MC TO 22.0 MC IN 8 MINUTES, AUTOMATIC. MARCH, 1962

TABLE 21

SLOUGH, ENGLAND (51.5N, 0.6W) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	U 35	35	34	U 34	U 33	U 29	32	49	54	60	65	68	U 69	U 70	70	70	U 68	U 67	70	62	U 57	U 47	U 38	U 39
	CNT	27	27	26	24	21	22	26	27	26	28	29	24	29	27	28	25	24	25	28	30	29	28	29	29
	UQ	40	40	37	37	36	31	40	51	59	66	70	71	74	71	74	81	70	70	70	70	61	52	46	44
	LQ	32	32	32	32	30	24	27	42	50	53	60	60	60	64	66	64	65	63	64	58	49	35	32	34
h' F2	MED									250	270	255	260	270	270	270	265	260							
	CNT									5	21	29	27	29	26	26	23	10							
	UQ									280	290	280	285	290	300	280	280	275							
	LQ									220	250	250	250	255	255	260	250	255							
h' F	MED	290	290	280	280	260	250	250	240	230	205	200	200	200	200	220	240	240	240	235	225	225	230	E 260	E 290
	CNT	21	27	26	25	25	17	22	27	26	27	29	26	30	24	25	25	27	29	28	29	27	22	21	24
	UQ	300	300	295	290	280	255	255	250	240	225	210	210	205	210	250	240	250	250	245	235	240	240	260	
	LQ	270	270	270	270	250	240	240	230	220	200	200	190	190	190	210	220	230	235	220	215	215	225	250	
M(3000)F2	MED	260	U 280	280	U 280	300	U 310	310	335	340	335	335	335	335	330	330	330	335	330	330	U 325	U 325	U 300	U 285	U 280
	CNT	26	27	24	23	24	26	26	19	25	21	24	19	25	21	24	19	16	19	14	16	23	25	27	26
	UQ	290	290	290	290	305	320	325	340	350	350	350	345	350	340	340	345	340	340	345	330	335	315	295	290
	LQ	270	275	275	270	280	290	310	330	325	325	320	330	320	320	320	320	330	320	315	320	310	280	275	270
fo F1	MED									370	380	410	U 430	420	U 420	U 410	U 400	U 360							
	CNT									1	15	27	22	26	21	19	12	1							
fo E	MED						J 100	J 155	190	245	280	295	300	310	300	300	290	260	210	175	J 120				
	CNT						1	15	26	27	25	25	23	27	25	30	27	27	27	15	4				
h' E	MED							U 180	115	110	105	105	105	105	105	105	110	110	115						
	CNT							2	11	23	25	26	25	27	28	30	25	24	18						
fo Es	MED	E 15	E 12	E 12	E 12	E 12	E 16	E 16	19	25	28	30	32	32	32	G	G	27	23	18	E 16	E 16	E 16	E 16	E 16
	CNT	28	28	27	27	25	26	26	26	26	26	30	28	30	27	29	28	28	29	28	29	29	29	30	30

SWEEP

MARCH, 1962

TABLE 22

SINGAPORE, BRITISH MALAYA (1.3N, 103.8E) TIME 105.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	88	70	59	54	48	36	37	71	84	96	102	U 104	99	101	105	110	113	112	U 110	U 110	U 112	U 111	U 109	U 112
	CNT	24	28	28	27	26	30	30	28	29	29	30	31	29	31	29	31	31	30	29	28	24	23	19	23
	UQ																								
	LQ																								
h' F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h' F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	345	315	315	330	345	345	315	335	310	270	240	215	205	225	245	245	255	260	270	U 265	U 265	U 300	U 320	320
	CNT	20	28	23	27	23	27	28	28	29	29	30	23	28	28	29	31	31	30	23	22	16	18	13	21
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED		95	90	80	90	90	115	230	295	330	360	370	375	370	365	340	300	250	175					
	CNT		3	4	2	3	6	7	13	17	21	23	26	29	26	25	24	20	23	12					
h' E	MED																								
	CNT																								
fo Es	MED	E 10	E 8	E 10	E 10	E 10	E 10	G	27	32	36	37	G	G	G	G	G	G	G	E 15		E 14	E 16	E 13	E 10
	CNT	30	30	30	30	29	30	30	29	29	30	31	30	30	31	29	31	31	30	31	30	29	29	30	29

SWEEP

MARCH, 1962

TABLE 23

HUANCAYO, PERU (12.0S, 75.3W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	90	84	60	45	34	26	42	75	90	100	101	102	95	97	99	102	101	100	96	88	86	90	92	90
	CNT	14	16	16	20	23	24	26	29	31	31	31	31	31	31	31	31	31	31	31	30	19	13	16	12
	UQ	95	90	66	50	39	37	46	78	96	106	107	110	105	102	105	106	109	106	104	96	94	102	100	90
	LQ	88	76	53	38	26	19	36	72	88	95	94	90	90	92	94	97	95	90	87	84	78	80	82	86
h' F2	MED										U 310	U 330	U 320	325	U 330	U 320									
	CNT									4	9	8	5	12	8	5	2								
	UQ										330	330	330	330	330	330									
	LQ										300	315		320	320	310									
h' F	MED	230	215	215	230	240	255	265	240	225	215	210	200	200	200	195	195	200	210	265	300	310	265	240	230
	CNT	24	30	31	31	30	29	31	31	31	30	30	31	31	31	31	31	31	31	31	30	20	13	19	22
	UQ	240	230	230	235	245	265	270	240	225	215	210	205	205	200	200	200	205	240	270	320	335	270	250	245
	LQ	220	210	210	225	230	240	260	235	220	215	200	200	200	195	195	190	195	200	255	290	285	250	225	220
M(3000)F2	MED	325	330	330	345	340	340	310	335	320	290	260	250	255	255	255	250	250	250	255	250	255	280	300	300
	CNT	14	16	16	20	23	23	26	29	31	31	29	30	30	30	31	29	31	31	31	30	19	12	16	12
	UQ	340	330	340	350	345	350	320	340	330	300	270	260	260	260	260	260	260	260	265	260	265	290	310	315
	LQ	310	320	320	340	330	330	280	330	305	265	250	235	245	250	245	245	250	245	245	245	245	275	285	290
fo F1	MED												470	470	470										
	CNT												7	8	7	1									
fo E	MED							E	235	290	U 330	U 350	U 370	U 370	U 365	U 350	U 330	U 300	U 250	U 170					
	CNT							27	31	31	30	29	26	30	29	29	29	31	31	21					
h' E	MED							E	121	113	109	109	106	105	107	107	109	109	111	E 155					
	CNT							25	31	30	31	28	28	27	28	31	31	31	31	5					
fo Es	MED	40	39	38	34	35	32	39	35	62	80	90	90	90	90	90	82	78	68	48			38	36	44
	CNT	28	31	30	30	31	31	31	31	31	31	29	30	30	30	31	29	31	31	31	26	16	13	20	22

SWEEP 1.0 MC TO 25.0 MC IN 1 MINUTE 48 SECONDS.

MARCH, 1962

TABLE 24

OKINAWA I. (26.3N, 127.8E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	U 40	U 38	38	37	34	29	25	34	62	72	86	100	110	114	124	124	107	99	92	72	62	60	50	U 40
	CNT	27	27	28	28	27	25	25	28	28	28	28	28	27	28	28	28	27	28	28	28	27	28	28	28
	UQ	47	47	44	44	38	35	28	40	68	78	94	120	128	142	140	134	127	116	108	93	71	68	61	48
	LQ	30	31	32	32	30	23	20	29	56	66	72	78	93	98	106	106	91	86	78	62	55	52	38	35
h' F2	MED										253	270	284	279	278	270	260	251	240						
	CNT									2	17	23	26	27	28	27	28	27	22	1					
	UQ										262	291	292	298	291	280	266	260	248						
	LQ										238	260	269	262	261	262	250	241	230						
h' F	MED	268	275	U 273	258	233	U 238	E 299	259	233	231	226	227	E 220	U 209	U 218	212	218	223	222	210	217	U 231	244	U 261
	CNT	27	28	28	28	27	23	24	28	28	28	28	28	26	27	26	27	26	27	28	28	28	28	28	28
	UQ	292	308	282	281	268	300	309	269	240	236	231	238	230	240	228	229	220	230	230	216	230	250	259	277
	LQ	260	266	249	242	213	228	243	254	220	222	218	208	210	200	209	201	211	208	218	204	208	222	220	249
M(3000)F2	MED	300	U 295	305	320	335	330	310	320	350	350	330	320	320	325	325	330	325	335	350	330	U 315	U 320	U 315	U 305
	CNT	22	25	28	26	25	23	20	26	27	28	28	28	26	25	25	25	25	26	26	27	21	24	24	22
	UQ	320	310	320	330	370	350	350	330	360	360	350	335	335	330	330	340	340	345	360	345	330	330	340	315
	LQ	290	280	290	305	310	285	280	315	345	330	310	310	310	310	315	320	315	325	335	325	300	305	305	290
fo F1	MED														3		1								
	CNT																								
fo E	MED									U 200	U 285	U 305	U 320				U 310	295	250						
	CNT									10	11	10	5				8	11	9	1					
h' E	MED									E 118	110	110	110	109	109	110	E 113	U 116	E 117						
	CNT									24	26	22	20	14	15	12	16	19	15						
fo Es	MED											34	39	41	39	38	D 31								
	CNT	28	28	28	28	27	25	22	26	28	28	28	28	27	28	28	28	28	28	28	28	28	26	28	28

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

FEBRUARY, 1962

TABLE 25

ANCHORAGE, ALASKA (61.2N, 149.9W) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 41	U 22	U 21	U 27	U 23	U 25		U 24	U 28	39	50	53	54	60	58	47	45	34	U 28	U 21	U 14			U 36
	CNT	1	4	5	5	5	2		2	12	29	29	30	30	30	30	29	28	29	20	6	1			1
	UQ		28	28	30	24				30	44	54	59	60	66	64	55	50	42	31	22				
	LQ		18	14	22	22				24	34	46	47	51	53	50	42	39	28	24	21				
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED									U 320	345	355	360	350	350	360	350	350	345	340					
	CNT	1	2	3	1	4				7	27	28	30	30	28	30	26	26	28	15	4				
	UQ									330	350	360	365	350	360	365	360	360	350	350					
	LQ									290	335	350	350	335	340	350	345	340	335	330					
foF1	MED																								
	CNT																								
foE	MED																								
	CNT										1	4	2	3	2	4	1								
h'E	MED																								
	CNT										2	4	2	3	119 5	127 5									
foEs	MED			U 24		U 30																			
	CNT	4	26 10	8	10	8	4	3	3	11	26	28	29	29	29	27	25	25	26	19	8	1	1	2	3

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. JANUARY, 1962

TABLE 26

WHITE SANDS, NEW MEXICO (32.3N, 106.5W) TIME 105.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	29	31	33	32	30	26	26	37	56	59	61	65	71	71	69	65	61	54	36	30	26	28	28	28
	CNT	23	27	28	28	27	22	29	28	30	31	30	31	31	31	31	31	31	31	31	27	28	27	25	26
	UQ	32	33	36	37	33	28	30	38	57	65	64	73	78	80	74	68	67	60	42	35	30	30	29	30
	LQ	27	29	30	30	27	25	24	35	50	54	56	60	64	67	64	59	59	50	33	26	25	25	24	26
h'F2	MED									278	284	301	299	295	285	274	E 270								
	CNT									12	20	28	28	30	29	21	6								
	UQ									296	298	322	304	304	290	280	285								
	LQ									274	267	268	280	276	271	264	270								
h'F	MED	298	296	276	260	245	E 285	E 295	265	254	250	242	233	232	232	225	230	250	239	234	U 270	E 273	U 270	E 285	U 310
	CNT	26	30	30	31	28	26	31	30	30	30	30	29	30	28	30	28	29	31	31	28	28	27	25	29
	UQ	310	300	288	275	268	295	315	275	260	260	250	242	253	240	250	240	255	245	250	298	293	290	305	322
	LQ	284	286	265	248	237	264	280	259	245	240	230	220	218	220	219	220	237	235	225	257	260	263	270	293
M(3000)F2	MED	295	300	310	325	330	300	295	315	240	335	330	315	320	315	325	320	330	340	330	305	310	310	300	285
	CNT	23	27	27	27	26	20	26	27	30	31	30	31	31	31	31	31	31	31	31	27	28	26	25	26
	UQ	305	305	320	340	345	310	305	320	345	345	335	335	330	330	335	330	340	350	340	320	320	320	320	300
	LQ	285	290	295	310	310	290	290	305	330	330	320	300	310	295	315	310	320	330	320	290	305	300	280	280
foF1	MED											420	420	400	430	410									
	CNT									1	1	5	15	8	11	5									
foE	MED									215	260	290	320	330	320	305	290	255	200						
	CNT								1	18	21	17	10	13	16	21	18	16	12						
h'E	MED									132	120	119	118	119	115	120	122	E 130	E 137						
	CNT									26	28	27	29	24	26	27	27	24	10						
foEs	MED	31	31	28	30	36	28	30	25		27	33	35	36	34	33	31	26	24	31	33	39	34	35	38
	CNT	19	20	27	20	15	16	16	19	30	31	31	31	31	31	31	31	31	31	22	17	19	20	23	21

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. JANUARY, 1962

TABLE 27

KIRUNA, SWEDEN (67.8N, 20.4E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	28	26	25	24	25	20	22	20	25	28	35	43	46	44	39	30	27	24	22	28	23	26	24	23
	CNT	7	11	14	16	14	17	11	9	13	28	29	27	29	28	28	27	14	11	5	2	2	2	4	2
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	325	295	285	295	300	305	295	295	310	240	225	225	220	210	215	230	240	250	300	345	350	300	310	345
	CNT	13	15	17	18	17	16	10	6	9	29	29	27	29	29	30	28	19	8	4	4	4	6	7	5
	UQ																								
	LQ																								
M(3000)F2	MED	320	300	300	300	300	310	320	300	305	[illegible]	350	350	350	350	350	340	330	325	320	310	290	295	290	290
	CNT	6	10	12	15	12	14	9	7	12	[illegible]	27	27	26	25	27	24	14	10	4	2	2	2	2	2
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED										125	140	160	145	140										
	CNT										2	5	7	2	4										
h'E	MED											110	105	105	110										
	CNT											5	2	1	1										
foEs	MED	40	40	30	30	30	30	30	32	30	33			29		32	39	54	44	48	56	52	54	51	55
	CNT	19	16	17	16	9	8	7	5	7	16	16	24	24	22	17	11	5	14	13	16	18	17	18	20

SWEEP 0.8 MC TO 15.0 MC IN 30 SECONDS. DECEMBER, 1961

TABLE 28

JULIUSRUH/RUGEN, GERMANY (54.6N, 13.4E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	28	27	29	26	24	22	22	21	33	52	60	61	65	63	64	60	47	40	30	24	23	23	24	26
	CNT	21	22	22	26	27	27	27	26	28	27	27	24	27	26	25	26	26	25	28	25	25	25	23	21
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	300	290	280	270	280	295	280	290	240	215	220	215	220	215	220	215	210	220	230	280	280	300	300	300
	CNT	27	28	29	28	29	28	24	21	28	29	29	27	28	28	27	27	26	27	26	21	20	21	21	23
	UQ																								
	LQ																								
M(3000)F2	MED	295	285	290	290	290	290	310	305	325	340	350	350	355	345	345	345	340	330	330	310	295	290	290	290
	CNT	20	21	22	24	27	27	24	24	26	26	27	24	24	22	24	26	24	24	28	26	25	25	23	20
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED										190	210	230	240	240	225	200	185							
	CNT										4	9	13	17	12	13	5	1							
h'E	MED																								
	CNT																								
foEs	MED	23	22	20	25	17	16	24	24	15	24	25	27	27	27	[illegible]	25	25	23	27	26	20	25	25	25
	CNT	9	4	5	5	1	3	6	4	11	19	25	21	14	19	13	17	13	8	6	7	5	6	6	6

SWEEP 0.5 MC TO 20.0 MC IN 25 SECONDS. DECEMBER, 1961

TABLE 29

RESOLUTE BAY, CANADA (74.7N, 94.9W) TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	32	30	30	27	30	27	30	31	34	38	42	47	50	48	52	52	47	49	41	37	36	35	30	30
	CNT	26	28	27	23	22	24	24	25	26	26	27	25	26	25	25	25	23	25	25	26	25	27	28	28
	UQ	36	33	33	35	35	34	32	36	42	45	50	54	61	64	60	62	57	58	47	42	42	36	36	38
	LQ	28	26	23	24	26	25	26	28	29	30	25	37	41	40	44	40	42	38	36	34	32	30	26	26
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	270	270	270	255	265	270	270	250	250	240	250	240	235	230	230	230	225	230	240	250	250	250	265	260
	CNT	26	25	25	24	24	23	24	25	28	27	26	30	30	28	26	25	29	29	27	28	29	26	24	27
	UQ																								
	LQ																								
M(3000)F2	MED	U 300	U 310	U 300				U 300							U 310						U 300		U 320	U 300	U 300
	CNT	7	5	5	4	2	3	5	4		3	4	4	3	5	4	3	1	3	1	6	4	6	6	6
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED												U 130	U 130	U 120	U 140									
	CNT										1	4	7	9	8	7	3								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 17.0 MC IN 20 SECONDS. NOVEMBER, 1961

TABLE 31

F. DANKYLA, FINLAND (67.4N, 26.6E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	41		14						36	54	51	58	61	68	63	56	44	42	38		46		42	
	CNT	1		1						2	7	18	20	16	19	23	23	15	13	3		1		1	
	UQ										57	57	65	72	73	68	60	52	47	40					
	LQ										42	49	54	58	58	57	47	38	33	36					
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	320	320	310	240	280	270	268	265	252	228	215	213	217	220	210	210	210	225	230	240	260	290	300	310
	CNT	19	19	19	23	23	20	20	19	22	28	27	26	24	29	28	28	25	24	24	19	17	17	18	19
	UQ	410	340	330	325	310	285	290	300	280	240	230	225	225	227	220	229	222	238	250	250	322	345	370	330
	LQ	300	310	275	270	270	255	250	260	230	220	210	210	210	210	205	210	210	220	225	230	237	265	280	290
M(3000)F2	MED	290		280						325	325	335	333	330	335	335	330	325	325	322				310	
	CNT	1		1						1	6	18	20	16	17	23	21	14	12	2				1	
	UQ										340	345	345	342	345	340	335	335	333						
	LQ										315	330	320	325	325	325	320	320	320						
foF1	MED																								
	CNT																								
foE	MED										175	192	170	180	180	165	190								
	CNT										2	4	5	5	3	1	2								
h'E	MED										150	125	105	138	155		145								
	CNT										2	3	2	4	3		1								
foEs	MED	26	25	24	25	23	25	25	24	E 10	25	32	33	33	33	33	26	25	25	25	22	24	27	25	28
	CNT	26	27	27	29	29	27	26	28	22	22	24	23	17	15	19	26	26	25	29	29	28	27	24	28

SWEEP 1.4 MC TO 22.0 MC IN 8 MINUTES. AUTOMATIC. NOVEMBER, 1961

TABLE 33

LYCKSELE, SWEDEN (64.7N, 18.8E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	18	17	18	19	20	21	22	23
foF2	MED	U 22	20	15	17	18	17	18	22	36	50	58	63	67	66	62	56	41	35	28	21	20	20	20	20
	CNT	23	29	26	28	26	26	23	29	30	30	30	30	30	30	30	29	28	26	28	28	24	20	22	19
	UQ																								
	LQ																								
h'F2	MED												1												
	CNT																								
	UQ																								
	LQ																								
h'F	MED	310	300	280	265	275	260	250	255	220	215	215	215	215	210	210	210	215	220	235	240	250	260	290	305
	CNT	16	23	22	24	22	21	17	27	29	30	30	28	30	29	29	28	26	25	23	19	14	12	11	9
	UQ																								
	LQ																								
M(3000)F2	MED	270	280	280	280	290	290	280	300	315	330	330	335	340	340	340	330	320	315	300	300	300	290	280	280
	CNT	17	24	25	26	24	23	21	29	30	30	30	30	30	29	30	29	27	26	27	22	19	19	17	16
	UQ																								
	LQ																								
foF1	MED												1												
	CNT																								
foE	MED								90	140	170	185	190	190	190	180	140								
	CNT								3	14	15	16	17	17	14	15	11								
h'E	MED									110	110	110	130	150	130		140								
	CNT									7	3	3	3	2	1		1								
foEs	MED																								
	CNT																								

SWEEP 0.33 MC TO 20.0 MC IN 3 MINUTES. NOVEMBER, 1961

TABLE 32

NURMIJARVI, FINLAND (60.5N, 24.6E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	21	20	18	19	15	15		22	40	52	62	70	72	73	73	66	56	50	42	35	28	26	24	21
	CNT	1	1	1	1	5	3		5	12	17	20	19	23	22	23	23	20	10	13	8	9	1	2	2
	UQ					16	18		26	41	60	72	75	82	88	78	72	64	53	48	41	34			
	LQ					14	14		19	35	44	58	59	65	67	68	58	52	42	31	30	23			
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	310	315	300	300	300	300	300	300	230	210	210	210	220	210	210	210	205	210	220	230	270	295	305	305
	CNT	8	10	10	13	15	9	7	15	30	29	29	29	29	29	29	30	30	29	29	26	18	8	10	10
	UQ	355	380	310	320	315	315	300	320	250	220	225	225	220	220	220	210	215	220	230	260	280	315	330	320
	LQ	305	310	300	300	300	278	250	290	220	200	205	208	210	210	205	210	200	205	215	220	240	260	280	300
M(3000)F2	MED	300	295	310	300	310	310		310	340	340	350	350	350	348	350	350	340	340	330	325	320	320	305	310
	CNT	1	1	1	1	5	3		5	12	17	20	19	23	22	23	23	20	10	13	8	9	1	2	2
	UQ					320	320		325	350	358	358	355	355	355	355	355	352	340	350	340	335			
	LQ					305	310		305	320	335	340	340	330	340	340	340	340	320	312	318	313			
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED			28		29					27	23	67					25	25				21	35	43
	CNT			1		2					5	3	1					6	2				1	2	2

SWEEP 1.0 MC TO 25.0 MC IN 1 MINUTE. NOVEMBER, 1961

TABLE 33

UPPSALA. SWEDEN (59.8N, 17.6E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	19	17	16	16	16	17	18	28	45	58	67	70	75	72	69	60	46	41	33	27	23	20	19	20
	CNT	19	22	25	27	28	29	26	29	29	30	29	28	29	29	29	29	29	28	28	25	24	20	20	18
	UQ																								
	LQ																								
h'F2	MED														1										
	CNT																								
	UQ																								
	LQ																								
h'F	MED	U	U	U																		U	U	U	U
	CNT	275	275	265	260	260	260	260	245	215	215	210	215	210	210	210	210	210	220	230	235	240	260	275	290
	UQ	22	26	28	28	28	29	24	28	24	24	27	24	29	29	29	29	29	28	29	26	22	19	20	20
	LQ																								
M(3000)F2	MED	270	280	280	290	290	300	300	300	330	350	340	340	340	340	340	340	330	320	320	310	300	290	280	280
	CNT	19	22	25	27	28	29	26	29	29	30	28	28	29	29	29	29	29	27	28	25	24	20	20	18
	UQ																								
	LQ																								
foF1	MED														1										
	CNT																								
foE	MED								100	175	190	210	225	230	220	195	170	125	U 110						
	CNT								10	16	17	18	22	23	24	22	9	6	2						
h'E	MED								140	115	E 125	U 115	U 110	115	U 120	U 130	E 145	150	130						
	CNT								7	7	12	10	9	11	9	8	2	2	2						
foEs	MED	23	23	23	23	26	24	24	22	25	26	26	26	26	27	25	26	25	23	23	22	24	23	22	23
	CNT	25	25	29	29	28	26	27	24	27	30	28	29	27	28	28	28	27	28	28	26	24	24	26	24

SWEEP 0.33 MC TO 20.0 MC IN 3 MINUTES. NOVEMBER. 1961

TABLE 34

WARSAW (MIEDZESZYN). POLAND (52.2N, 21.2E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	31	32	32	30	27	26	26	43	61	70	78	75	72	73	75	67	54	41	38	35	U 31	U 30	30	U 32
	CNT	28	27	26	25	27	26	26	29	27	27	28	27	29	27	29	27	28	30	30	25	24	22	25	25
	UQ	35	34	35	35	32	29	30	52	65	73	86	90	80	86	80	71	61	50	42	40	35	32	33	34
	LQ	30	30	29	25	22	22	23	40	55	63	66	70	68	68	68	60	46	39	32	31	28	30	27	28*
h'F2	MED										1		2	1	1										
	CNT																								
	UQ																								
	LQ																								
h'F	MED	F	E	E	E	E	E	E											E	E	E	E	E	E	E
	CNT	290	280	275	265	255	255	250	225	220	220	230	225	225	225	235	220	215	230	250	250	255	280	290	290
	UQ	24	27	25	25	27	26	27	28	28	28	29	27	29	29	30	27	28	30	27	23	23	22	26	27
	LQ	300	305	295	275	275	265	275	230	230	225	235	230	230	230	240	225	225	240	260	260	280	300	305	300
		280	265	265	255	250	250	235	220	215	210	220	220	210	220	230	215	210	220	235	240	250	265	280	275
M(3000)F2	MED	285	285	285	290	300	310	315	325	345	335	340	340	340	335	335	345	335	320	320	315	305	290	285	285
	CNT	13	18	20	20	18	16	9	23	15	15	16	20	19	25	18	21	17	26	23	17	11	8	9	9
	UQ	290	290	290	300	315	320	320	350	350	345	345	345	350	345	345	350	340	330	325	320	310	300	295	300
	LQ	280	275	280	280	295	300	290	320	340	330	330	335	330	320	330	340	325	310	305	310	295	280	280	285
foF1	MED										1		1												
	CNT																								
foE	MED								E 160	195	220	245	270	270	250	210	U 170	E							
	CNT		2	2	2	3	5	* 3	28	22	14	11	13	14	16	14	13	22	3			1			
h'E	MED									E 133	E 125	117	115	E 121	E 129	E 129									
	CNT									13	15	12	10	9	6	10	2								
foEs	MED	E	E	E	E	E	E 16	E 16	E 16	G	25	G	G	G	G	G	20	E	E	E	E	E	E	E	E
	CNT	16																16	16	16	16	16	16	16	16
		28	28	25	26	28	29	29	28	27	27	28	27	29	29	29	26	28	30	30	26	26	27	28	28

SWEEP 1.0 MC TO 18.0 MC IN 20 SECONDS. NOVEMBER. 1961

TABLE 35

LINDAU/HARZ. GERMANY (51.6N, 10.1E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	316	333	324	326	318	295	265	305	499	644	70	756	802	774	73	728	643	51	435	365	326	328	293	308
	CNT	23	23	25	25	22	19	21	21	28	30	30	30	30	30	30	30	30	29	29	29	28	25	24	24
	UQ																								
	LQ																								
h'F2	MED												283	224											
	CNT												1	1											
	UQ																								
	LQ																								
h'F	MED	272	271	270	273	261	250	239	238	220	220	224	226	225	223	226	226	218	213	230	232	240	244	261	268
	CNT	28	29	30	29	27	28	26	25	29	29	29	28	30	30	30	30	30	30	27	26	25	24	25	25
	UQ																								
	LQ																								
M(3000)F2	MED	287	286	285	288	293	309	319	311	340	349	342	343	345	345	339	346	347	332	318	318	311	309	294	291
	CNT	22	23	24	24	22	19	19	21	27	29	30	29	30	30	30	30	30	29	28	27	28	24	23	24
	UQ																								
	LQ																								
foF1	MED												380	405											
	CNT												1	1											
foE	MED							E	E					E 263	E 260	E 244	E 214	E 183	E						
	CNT							1	16	149	210	237	252	20	17	28	22	13	13						
h'E	MED							E	E	E	E							E	E						
	CNT							1	16	16	2	112	112	110				2	16						
												3	2	1											
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 4 MINUTES. NOVEMBER. 1961

TABLE 36

SLOUGH. ENGLAND (51.5N, 0.6W) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	30	30	31	30	26	23	22	35	54	63	73	78	77	72	70	70	61	50	41	34	33	31	30	31
	CNT	27	26	25	24	24	28	28	23	28	27	23	25	26	26	28	25	27	27	29	28	27	25	26	26
	UQ																								
	LQ																								
h'F2	MED										240	230	235	230	225	235									
	CNT										2	3	11	16	15	5									
	UQ																								
	LQ																								
h'F	MED	275	270	275	265	250	250	235	230	215	215	215	220	210	205	220	225	210	215	E 230	230	250	250	270	280
	CNT	27	28	28	25	27	20	19	27	29	29	27	28	27	29	28	28	28	29	29	25	25	24	21	23
	UQ																								
	LQ																								
M(3000)F2	MED	290	285	290	295	300	305	320	315	345	350	340	350	350	350	345	350	350	330	325	315	315	300	300	290
	CNT	24	22	24	21	23	22	20	17	23	22	17	19	18	21	22	18	22	26	26	26	25	22	22	21
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								E 160	185	225	255	270	270	260	240	210	160							
	CNT								10	24	19	16	21	23	29	22	20	17							
h'E	MED									125	115	110	110	110	110	120	E 125	140							
	CNT									9	20	18	14	15	14	16	11	1							
foEs	MED	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	CNT	13	10	10	11	12	15	16	16	19	24	27	28	27	25	23	24	19	19	16	16	16	16	16	16
		29	27	28	27	28	28	29	29	26	24	28	28	24	29	27	28	28	29	29	29	29	29	29	29

SWEEP NOVEMBER. 1961

TABLE 37

PRUHONICE, CZECHOSLOVAKIA 150.0N, 14.6E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	37	35	35	34	32	30	38	57	69	73	78	80	76	75	75	64	49	43	39	37	34	33	34	35
	CNT	29	30	30	30	28	27	30	29	30	30	30	30	30	30	29	30	30	29	29	29	28	29	29	29
	UQ																								
	LD																								
h'F2	MED																								
	CNT																								
	UD																								
	LD																								
h'F	MED	270	260	255	250	240	230	220	205	205	210	210	215	215	225	210	205	200	220	225	235	250	270	275	260
	CNT	30	30	30	30	28	27	30	30	30	30	29	30	30	30	30	30	29	29	30	29	28	26	28	23
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E			E					E	E	E									
	CNT	16	27	24	29	16	2	1	27	24	28	29	28	28	26	23	20	20	26				1	1	2
									20	28	28	28	26	27	26	25	18	9	9	1					

SWEEP 1.0 MC TO 18.0 MC.

NOVEMBER, 1961

TABLE 38

WINNIPEG, CANADA 149.9N, 97.4W1

TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	22	25	24	22	23	E	E	E	42	56	62	72	74	77	80	80	73	62	50	40	34	28	25	22
	CNT	20	21	21	22	19	19	15	13	26	28	28	28	28	30	28	28	29	30	30	29	26	24	18	18
	UD	46	61	70	73	82	82	84	83	76	69	59	48	39	32	31	28								
	LD	39	49	56	64	69	70	72	74	69	57	46	34	29	24										
h'F2	MED										U		U				U								
	CNT									3	220	240	260	240	245	245	230	1							
	UQ										4	4	18	21	22	15	9								
	LD																								
h'F	MED	E					E	E	E																E
	CNT	16	320	370	340	330	15	12	11	230	220	210	210	210	210	220	220	210	210	210	230	240	280	300	13
	UQ		15	15	17	15	14			25	26	28	25	24	27	28	27	29	29	29	26	21	14	15	
	LQ																								
M(3000)F2	MED		U				U			340	340	340	340	330	330	330	340	340	330	330	330	330	U	U	
	CNT	1	300	2	2	4	310	1	1	16	19	20	22	22	23	25	23	26	22	25	25	18	330	320	3
	UQ		5				6																9	5	
	LQ																								
foF1	MED											2	3	2	2										
	CNT																								
foE	MED										230	260	270	280	280	270	250	210							
	CNT									3	11	19	17	18	16	13	15	11							
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

NOVEMBER, 1961

TABLE 39

ST. JOHNS, NEWFOUNDLAND 147.6N, 52.7W1

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	25	25	23	23	24	24	25	46	60	66	72	75	77	73	72	72	65	56	48	40	32	32	29	26
	CNT	25	25	27	29	23	22	26	29	30	30	30	30	30	30	30	30	29	27	26	27	27	25	25	24
	UQ	29	26	27	28	29	26	28	53	67	69	78	78	80	78	78	78	70	61	52	42	37	34	31	28
	LD	22	22	21	20	19	20	23	43	56	62	68	73	74	70	69	68	60	50	42	33	27	24	22	22
h'F2	MED										U	U													
	CNT										250	250	250	250											
	UQ									3	5	9	16	13	4	4									
	LD																								
h'F	MED	295	290	300	290	270	250	260	230	220	215	220	215	220	230	235	230	215	225	240	250	260	280	295	300
	CNT	16	18	19	22	20	18	19	30	29	30	29	29	29	30	30	30	29	28	28	26	20	14	15	13
	UQ																								
	LQ																								
M(3000)F2	MED	290	290	290	300	310	320	310	340	350	340	340	340	340	340	340	340	330	320	320	320	300	300	290	290
	CNT	15	20	17	19	17	14	20	27	28	26	29	24	29	29	28	29	27	20	23	23	23	21	16	17
	UQ																								
	LQ																								
foF1	MED										1	1	1	1											
	CNT																								
foE	MED													290											
	CNT								2	2	3	1	3	6	3	1	1								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

NOVEMBER, 1961

TABLE 40

SOTTENS, SWITZERLAND 46.6N, 6.7E1

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	36	37	38	37	365	35	32	33	52	61	73	71	805	765	73	72	68	59	42	39	38	37	35	36
	CNT	27	27	28	28	26	26	26	27	26	25	27	28	28	28	28	27	28	28	27	27	26	27	27	27
	UD																								
	LD																								
h'F2	MED																								
	CNT																								
	UD																								
	LD																								
h'F	MED	270	275	270	270	260	250	230	230	220	210	215	210	200	210	220	230	225	210	220	250	250	250	270	275
	CNT	28	26	28	27	27	27	26	27	27	26	27	28	25	28	28	27	28	28	27	27	26	25	27	27
	UD																								
	LD																								
M(3000)F2	MED	295	290	295	290	300	315	325	320	340	355	355	350	350	355	350	350	355	350	335	320	330	325	300	300
	CNT	27	27	28	27	26	26	25	26	19	20	22	25	19	27	24	22	25	23	24	25	23	25	24	27
	UD																								
	LD																								
foF1	MED																								
	CNT																								
foE	MED										220	250	270	290	280	270	250								
	CNT									2	10	11	12	15	19	13	7	4							
h'E	MED										120	110	110	110	110	120	120								
	CNT									2	14	18	13	11	15	13	10	4							
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

NOVEMBER, 1961

TABLE 41

OTTAWA, CANADA (45.4N, 75.9W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	24	23	22	22	22	22	21	36	56	64	70	75	80	78	78	78	73	62	51	40	34	30	26	24
	CNT	30	30	30	30	30	29	30	30	30	30	30	29	29	30	29	29	30	30	29	30	29	30	30	29
	UQ	27	26	25	25	28	27	25	40	60	68	75	79	83	80	80	80	75	68	58	43	38	32	28	28
	LQ	21	20	20	20	20	20	20	32	52	60	66	71	78	73	72	73	70	57	48	38	32	25	23	21
h'F2	MED										255	255	260	260	250	260	250								
	CNT										12	23	25	26	29	24	11								
	UQ																								
	LQ																								
h'F	MEQ	300	310	300	300	300	300	300	250	230	225	205	205	210	225	230	240	230	220	240	240	260	280	300	300
	CNT	28	28	28	29	29	28	27	28	29	27	28	27	27	27	27	27	28	28	29	29	28	29	29	29
	UQ																								
	LQ																								
M(3000)F2	MED	U	U	U	U	U																			
	CNT	300	280	290	290	300			310	330	340	330	330	320	320	330	320	330	320	310	310	300	290	290	290
	UQ	8	9	6	8	5	4	4	17	24	21	20	19	23	22	22	17	15	18	19	19	15	13	11	12
	LQ																								
foF1	MED										U	U	U	U	U										
	CNT										400	390	400	400	380										
											7	12	10	11	5	4									
foE	MED								160	200	240	270	280	290	290	270	230	180							
	CNT								11	29	27	26	25	27	28	28	27	21							
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 16 SECONDS. NOVEMBER, 1961

TABLE 42

ROME, ITALY (41.8N, 12.5E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	37	37	38	38	37	35	32	49	62	73	79	80	82	76	77	82	74	53	42	37	36	37	35	37
	CNT	24	24	20	24	23	19	23	21	18	20	24	26	27	22	25	22	21	18	20	19	14	18	17	19
	UQ	38	39	38	38	39	37	34	51	66	77	85	88	94	80	82	91	81	58	48	42	38	39	37	38
	LQ	33	34	35	36	35	31	29	42	61	67	74	74	76	71	71	68	68	48	36	33	34	34	33	35
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	270	290	270	270	250	250	240	230	220	230	210	210	210	210	230	240	220	210	240	250	250	250	270	280
	CNT	25	29	28	27	29	27	27	26	27	26	27	28	26	24	27	27	28	25	24	24	25	26	27	27
	UQ	290	300	290	290	270	250	260	240	230	230	230	220	230	220	240	240	230	210	240	250	250	260	290	300
	LQ	260	270	260	250	250	230	230	220	210	210	210	200	200	210	210	230	220	210	220	240	250	240	250	250
M(3000)F2	MED	290	290	U	290	300	320	315	325	U								U							
	CNT	24	24	21	24	23	17	21	19	340	340	340	335	340	330	325	335	15	15	18	16	14	17	14	19
	UQ	300	300	290	315	305	335	335	345	355	350	340	345	350	340	340	345	350	350	320	315	325	320	310	305
	LQ	280	280	280	285	285	305	305	320	330	330	330	325	330	315	325	330	335	320	305	300	305	280	285	280
foF1	MED																								
	CNT																								
foE	MED								160	210	250	280	300	300	290	290	250	U							
	CNT								5	21	20	19	23	22	19	23	23	210							
																		11							
h'E	MED									130	110	110	110	110	110	110	110	120							
	CNT									22	22	27	30	28	26	27	24	16	2						
foEs	MED																								
	CNT	29	29	29	28	29	28	28	28	27	27	28	30	29	27	29	29	29	29	28	29	28	29	29	29

SWEEP 1.4 MC TO 15.0 MC IN 5 MINUTES, AUTOMATIC. NOVEMBER, 1961

TABLE 43

SINGAPORE, BRITISH MALAYA (1.3N, 103.8E) TIME 105.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	60	54	49	45	42	36	50	72	78	86	92	98	98	97	98	102	104	103	99	96	88	92	99	69
	CNT	27	28	26	27	28	27	28	29	28	30	27	28	24	28	29	29	28	27	26	27	22	20	18	24
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	300	300	305	310	320	335	330	320	285	250	235	215	210	220	235	245	255	250	250	255	265	290	335	320
	CNT	27	28	26	27	28	26	28	29	28	30	27	28	24	28	29	29	28	27	26	27	22	20	18	24
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED	95		100	85	90	95	165	245	300	325	350	365	365	355	340	315	280	220	160					105
	CNT	1		2	1	1	1	13	17	19	24	22	22	22	20	19	16	12	11	1					1
h'E	MEQ																								
	CNT																								
foEs	MED	0	0										G												
	CNT	9	12	10	11	11	11	16	27	32	36	32	28	36	29	33	34	31	26	25	28	28	24	24	44
				15	13	13	11	29	29	28	30	20		28	30	30	29	28	27	21	16	20	12	9	3

SWEEP NOVEMBER, 1961

TABLE 44

RAROTONGA, COOK IS. (21.2S, 159.8W) TIME 165.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	83	73	67	66	66	69	75	76	82	93	104	116	120	120	114	U 107	101	91	96	90	88	86	84	84
	CNT	13	18	24	26	23	27	28	30	30	30	28	30	29	29	30	30	27	19	19	20	19	15	15	13
	UQ																								
	LQ																								
h'F2	MED							240	280	280	310	320	310	300	300	300	300	300	300						
	CNT							2	13	26	28	29	29	30	30	30	29	21	6						
	UQ																								
	LQ																								
h'F	MEQ	250	240	250	270	260	250	230	220	220	230	220	220	230	230	230	230	E 250	250	260	260	280	290	290	280
	CNT	30	30	30	30	30	30	29	29	29	25	25	27	26	23	25	22	20	30	30	29	30	30	30	30
	UQ																								
	LQ																								
M(3000)F2	MEQ	300	320	300	300	300	300	350	335	305	300	300	305	310	315	310	310	315	300	310	290	290	290	290	300
	CNT	13	17	24	25	23	27	26	30	28	30	28	30	29	29	30	30	25	17	18	17	18	14	15	13
	UQ																								
	LQ																								
foF1	MED									450	480	480	490	490	480	470	U 460	460							
	CNT									3	12	19	20	22	15	14	2	1							
foE	MED			E	E	E				320	340	360	360	360	360	340	320	280	210	E	E				
	CNT			3	4	8	150	240	290	13	10	15	12	20	23	25	16	13	7	2	1				
h'E	MEQ			E	E	E	4	13	12	100	100	100	100	100	100	100	100	100	100	100	E				
	CNT			4	4	8	130	105	100	20	30	28	29	30	30	30	29	28	105	105	1				
foEs	MED	J	J	J	J	J	15	24	22	J	J	J	J	J	J	J	J	J	28	28	J				
	CNT	32	32	31	30	24	J	J	J	45	50	50	43	43	49	42	41	44	J	J	36	J	J	J	J
		23	19	26	24	23	26	38	30	30	30	28	29	29	29	29	29	51	48	40	36	36	19	38	32
							18	24	30									30	26	28	23	25	18	21	20

SWEEP NOVEMBER, 1961

TABLE 46

PRUHONICE, CZECHOSLOVAKIA (50.0N, 14.6E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	39	39	37	36	34	36	34	35	72	79	91	95	80	81	82	78	71	63	49	53	43	40	40	39
	CNT	25	25	25	27	24	20	24	27	27	24	27	28	10	24	27	27	27	27	29	26	25	25	24	23
	UQ																								
	LQ																								
h'F2	MED									265															
	CNT								1	4				-	2	1	1								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UD																								
	LD																								
foF1	MED												420												
	CNT								1	3	3	3	7	2	2	1	1								
foE	MED							200	220	270	280	290	290	270	300	270	230	200							
	CNT							19	22	28	28	27	14	14	15	19	16	7							
h'E	MED							125	105	100	110	100	100	100	95	100	100								
	CNT							9	23	30	30	29	21	19	20	21	14								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 18.0 MC. OCTOBER, 1961

TABLE 47

LULEA, SWEDEN (65.6N, 22.1E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U																U		U	U
	CNT	33	24	26	24	27	35	43	48	55	55	60	61	61	61	63	57	58	56	57	55	51	46	39	38
	UQ	4	5	11	12	14	21	20	19	22	25	27	27	27	25	26	24	26	25	22	16	10	8	10	6
	LQ																								
h'F2	MED								335	330	325	320	315	310	300	280									
	CNT								2	3	7	14	10	9	5	5									
	UQ																								
	LQ																								
h'F	MED	320	305	325	305	295	260	245	240	230	225	225	225	225	225	235	235	245	250	250	250	250	265	290	310
	CNT	22	19	22	20	20	23	21	21	22	22	24	26	22	20	21	22	26	26	26	25	25	21	24	22
	UQ																								
	LQ																								
M(3000)F2	MED	300	290	280	290	290	310	320	310	310	310	300	310	310	310	310	310	310	310	310	300	300	300	300	300
	CNT	1	4	6	6	10	18	20	19	21	25	24	27	27	25	26	24	25	25	21	14	6	7	4	3
	UQ																								
	LQ																								
foF1	MED								380	390	410	420	420	420	420	410									
	CNT								2	4	6	15	10	9	3	3									
foE	MED						150	210	240	260	270	290	300	290	290	280	260	240	210	160			U		
	CNT						11	17	14	16	19	16	21	17	19	13	14	16	14	11			240 1		
h'E	MED						175	130	125	120	120	115	115	115	120	120	115	125	140	180					
	CNT						11	14	13	16	18	16	21	17	18	13	14	15	12	9					
foEs	MED	J	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	J	J	J	J
	CNT	15					15	21	24	26	27	29	30	29	29	28	26	24	21	16	19	10	17	22	21
		17	16	17	19	11	13	14	12	18	20	20	24	23	22	18	17	20	21	20	19	17	16	14	14

SWEEP 0.65 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC. SEPTEMBER, 1961

TABLE 48

LYCKSELE, SWEDEN (64.7N, 18.8E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	31	29	26	24	25	34	42	46	51	55	58	60	61	62	62	59	58	57	57	53	45	41	37	34
	CNT	29	26	27	29	29	29	28	29	28	28	29	30	29	30	30	30	29	29	29	28	30	28	29	27
	UQ																								
	LQ																								
h'F2	MED								300	300	300	300	295	290	285	265	280	265	255						
	CNT							1	6	15	23	27	27	26	25	22	10	1	1						
	UQ																								
	LQ																								
h'F	MED	285	285	285	280	270	255	235	230	210	205	205	200	200	205	205	210	225	235	240	240	240	250	260	260
	CNT	24	25	20	24	24	29	27	29	26	28	29	29	28	29	28	30	27	29	29	28	28	25	23	24
	UQ																								
	LQ																								
M(3000)F2	MED	270	270	270	270	270	280	310	310	305	310	310	310	320	315	320	320	310	310	310	300	290	290	280	280
	CNT	29	27	23	25	28	29	28	29	28	28	29	30	29	30	30	30	29	29	29	28	28	26	27	25
	UQ																								
	LQ																								
foF1	MED							330	375	390	400	410	420	420	420	400	390	380	360						
	CNT							1	6	15	25	27	27	26	24	23	9	1	1						
foE	MED						140	190	220	230	260	270	280	280	280	270	250	230	210	170	130				
	CNT						20	22	25	24	25	27	26	25	27	24	26	26	24	13	5				
h'E	MED						110	105	105	100	100	100	100	100	100	100	105	105	110	115					
	CNT						11	14	19	25	25	22	27	23	23	21	21	22	14	3	1				
foEs	MED																								
	CNT																								

SWEEP 0.33 MC TO 20.0 MC IN 3 MINUTES. SEPTEMBER, 1961

TABLE 49

GRAZ. AUSTRIA (47.1N, 15.5E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	45	43	42	41	39	35	46	57	U 60	68	70	71	70	73	70	68	68	69	U 72	U 70	U 62	U 57	49	U 47
	CNT	27	27	28	28	26	27	29	28	26	24	27	28	28	29	29	29	29	29	30	28	29	28	24	26
	UQ	49	47	46	46	43	40	48	60	64	72	76	78	77	77	73	73	73	75	75	77	72	61	55	51
	LQ	38	40	40	38	36	32	40	50	59	64	65	63	64	67	67	64	66	65	69	63	58	54	45	39
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	J 29				J 24	J 25	J 26	J 31	33	33	35	34	35	34	34	33	34	32	J 28	J 28	J 25	J 32	J 25	J 24
	CNT	30	29	29	29	28	30	30	30	28	26	26	26	23	20	17	21	29	29	30	30	30	30	29	30

SWEEP 2.0 MC TO 13.0 MC IN 50 SECONDS. SEPTEMBER. 1961

TABLE 50

AHMEDABAD. INDIA (23.0N, 72.6E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	49	48	46	40	31	28	48	77	83	87	104	121	137	140	140	140	140	140	127	112	85	65	53	50
	CNT	27	28	29	28	27	28	30	30	30	30	29	30	30	29	30	30	29	29	29	30	30	30	28	26
	UQ																								
	LQ																								
h'F2	MED								240	250	285	310	350	350	320	318	300	275	250						
	CNT								28	29	29	30	30	30	29	30	30	29	29						
	UQ																								
	LQ																								
h'F	MED	300	290	250	250	250	275	250	240	225	210	200	205	225	225	228	235	240	250	240	223	220	250	310	323
	CNT	29	30	30	29	26	27	30	28	27	25	26	25	28	27	28	27	28	23	29	30	29	30	29	30
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LO																								
foF1	MED									8	20	16	21	23	23	23	24	19	4						
	CNT																								
foE	MED							135	220	280	330	355	380	380	385	370	335	290	240						
	CNT							10	22	16	11	10	5	9	12	14	16	21	26						
h'E	MED							120	115	110	110	110	110	110	110	113	110	115	120						
	CNT							6	24	18	15	16	11	5	13	10	15	22	24						
foEs	MED	E 18	E	E	E	E	E 13	17	29	33	37	38	39	38	37	35	23	G	24	E 28	20	15	E 11	E	13
	CNT	30	29	30	30	30	30	30	29	28	30	29	29	26	29	28	28	30	29	29	30	30	30	30	30

SWEEP 0.6 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC. SEPTEMBER. 1961

TABLE 51

IBADAN. NIGERIA (7.4N, 3.9E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	88	86	63	U 51	U 36	U 26	60	82	U 97	101	100	94	94	94	96	97	U 104	D 90	D 90	91	89	88	88	90
	CNT	27	25	25	26	25	24	24	27	28	24	28	27	27	28	28	28	28	28	23	25	25	27	27	27
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LO																								
h'F	MED	250	245	230	225	240	250	250	230	220	205	200	200	200	200	200	200	210	250	275	350	315	290	255	250
	CNT	27	25	25	25	24	24	24	25	26	24	26	24	25	26	23	26	23	26	25	26	26	27	27	27
	UQ																								
	LQ																								
M(3000)F2	MED	U 280	340	U 345	U 330	U 315	325	350	335	310	265	250	250	250	250	250	250	U 255	U 255	U 250	250	255	U 270		U 280
	CNT	2	2	5	6	8	13	16	20	16	17	25	25	25	27	28	24	12	3	5	8	1	2		1
	UQ																								
	LQ																								
foF1	MED										U 490	U 500	U 510	U 500	U 500	U 500	450	320							
	CNT										4	9	17	21	11	3	2	1							
foE	MED							200	280	320	U 350	U 370	U 380	U 380	U 370	360	335	290	225	130					
	CNT							22	25	25	24	26	24	25	25	23	26	22	18	16					
h'E	MED																								
	CNT																								
foEs	MED	E	E	11	E	E	12	G	G	76	90	92	90	90	90	87	51	49	C	G	E	E	E	E	E
	CNT	27	25	25	25	24	25	24	27	28	25	26	27	28	27	28	27	27	25	26	26	26	26	26	26

SWEEP SEPTEMBER. 1961

TABLE 52

PARAMARIBO. SURINAM (5.8N, 55.2W) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	88	85	79	80	77	71	62	53	48	44	54	69	75	86	100	103	110	126	122	123	121	109	89	87
	CNT	11	16	11	14	15	20	18	17	18	21	21	18	17	15	13	14	10	13	18	20	22	20	15	12
	UQ	106	101	86	84	82	83	78	62	56	54	62	74	82	98	114	112	118	134	133	132	128	114	110	92
	LQ	78	84	75	74	73	68	56	45	44	39	50	63	72	77	94	100	105	114	117	111	103	92	84	81
h'F2	MED											U 250	250	290	315	330	335	340	330	320	290	U 260			
	CNT											1	9	16	20	21	23	21	22	25	24	2			
	UQ																								
	LO																								
h'F	MED	280	260	280	260	250	230	225	220	250	240	230	230	230	U 225					U 230	U 230	250	250	250	280
	CNT	22	24	24	24	24	25	23	43	22	25	24	18	5	2					2	2	5	12	20	23
	UQ																								
	LQ																								
M(3000)F2	MED	290	295	285	290	310	320	320	325	310	315	335	330	315	290	285	295	290	295	295	300	300	300	295	285
	CNT	11	16	11	14	15	20	18	17	18	21	21	18	17	15	13	14	10	13	18	20	22	20	15	12
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED										E	200	280	U 290					U 410			U	E		
	CNT										23	20	10	2					1			300	1		
h'E	MED										E	E	110	105	U 100				U 100	U 105	U 100	1	E		
	CNT										24	24	20	10	4				2	2	4	100	7	5	
foEs	MED																								
	CNT																								

SWEEP 1.4 MC TO 20.0 MC IN 40 SECONDS. SEPTEMBER. 1961

TABLE 53

HOBART, TASMANIA (42.9S, 147.2E) TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 34	U 34	U 30	U 30	22	20	31	U 48	54	U 58	63	65	67	U 69	U 68	70	68	66	62	58	U 56	D 43	U 46	D 34
	CNT	19	19	17	14	14	15	15	19	18	20	21	23	24	23	22	23	23	25	24	23	22	22	21	21
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	310	310	300	320		U 300	335	340	350	345	340	335	335	335	340	335	335	340	340	315	320	300	310	310
	CNT	6	7	5	6	3	8	7	10	14	13	13	18	19	17	17	20	21	23	21	18	14	9	8	6
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 55 SECONDS. SEPTEMBER, 1961

TABLE 54

SODANKYLA, FINLAND (67.4N, 26.6E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	52	48		45	46	48	49	52	54	57	61	61	61	62	61	59	59	59	59	58	56	58	52	54
	CNT	7	2		2	6	15	21	26	25	25	25	26	26	27	31	28	25	27	25	24	21	10	7	3
	UQ	57				48	55	54	59	63	63	66	68	66	66	66	63	63	62	63	62	60	60	55	54
	LQ	49				43	42	44	47	52	53	54	57	57	56	55	56	55	54	54	53	51	53	46	49
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	280	288	285	278	270	250	230	225	215	215	212	210	210	210	210	210	215	225	230	238	245	260	260	280
	CNT	26	24	24	26	25	27	28	28	29	29	30	29	29	31	31	28	28	29	28	30	28	27	26	23
	UQ	310	305	310	310	285	250	243	230	223	220	220	223	220	215	215	218	220	230	240	260	255	275	280	310
	LQ	270	270	270	260	260	235	225	220	210	210	210	210	202	200	200	210	210	218	230	230	237	240	245	260
M(3000)F2	MED	280	270		275	285	290	290	285	290	290	290	295	290	300	295	300	300	300	305	300	300	292	290	287
	CNT	5	2		2	6	15	19	25	24	24	25	26	26	27	30	28	25	24	25	24	21	10	6	2
	UQ	288				290	295	300	300	300	300	295	305	300	310	305	310	310	308	310	310	307	305	295	
	LQ	275				270	270	280	275	280	280	285	285	290	285	285	298	290	295	300	300	295	290	285	
foF1	MED				230	280	320	360	390	410	430	450	440	460	450	440	420	400	400						
	CNT				1	1	3	5	9	13	16	18	14	15	17	15	5	2	1						
foE	MED					170	190	230	250	275	295	297	310	305	300	300	298	290	270	245	210	200	160		
	CNT					3	7	9	18	13	16	16	16	18	11	15	20	23	20	20	10	4	3		
h'E	MED						130	115	110	110	110	108	110	110	110	110	110	110	110	115	123	120			
	CNT						2	7	15	13	13	14	13	15	8	10	17	23	17	19	10	3			
foEs	MED	36	34	32	31	30	34	37	38	41	43	44	50	49	50	48	43	43	39	38	35	29	27	28	34
	CNT	31	30	30	29	29	24	22	19	21	20	21	20	23	21	23	22	19	22	19	23	26	31	30	30

SWEEP 1.4 MC TO 22.0 MC IN 8 MINUTES, AUTOMATIC. AUGUST, 1961

TABLE 55

LEOPOLOVILLE, CONGO (4.4S, 15.2E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 52	41	35	27	25	40	64	85	100	90	99	110	110	111	117	110	111	111				U 40	U 55	U 62
	CNT	9	12	15	16	18	23	12	23	18	10	17	18	19	24	24	25	19	11	4	2	3	5	6	6
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	U 314	298	280	295	314	307	315	302	302	271	272	270	271	260	261	262	267	274				U 315	U 300	U 305
	CNT	8	11	14	16	18	23	12	23	18	10	17	18	19	24	24	25	19	10	4	2	3	6	6	6
	UQ																								
	LQ																								
foF1	MED										U 460	U 460													
	CNT										6	5	3	1	2	1									
foE	MED							U 230	U 300	U 350	U 360	U 360				U 340	U 300	U 250							
	CNT							5	6	7	7	5	3	2	3	7	6	6							
h'E	MED							117	U 110	110	110	110	110	110	110	110	U 110								
	CNT						2	10	8	12	17	15	20	13	11	10	9	4	2						
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 7 SECONDS. AUGUST, 1961

TABLE 56

TOWNSVILLE, AUSTRALIA (19.3S, 146.7E) TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED		U 39	D 34	U 32	32	30	32	U 60	D 72	D 76	D 84	D 82	75	U 77	72	75	U 72	D 70	U 65	60	U 44	D 41	41	
	CNT	4	7	9	16	14	18	21	20	17	10	19	16	22	22	24	24	22	21	19	24	15	14	9	4
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	260	260	250	235	250	280	290	250	250	240	225	220	210	205	200	210	220	250	250	240	250	275	280	275
	CNT	25	23	23	22	21	21	21	24	23	21	22	16	14	15	21	19	22	24	27	24	25	25	25	24
	UQ																								
	LQ																								
M(3000)F2	MED				340	310	300	300	U 340	345			340	330	330	325	320	320	330	330	310	310	285	300	
	CNT	2	4	4	11	11	15	18	13	6	3	4	8	16	16	20	18	14	8	11	15	11	6	6	2
	UQ																								
	LQ																								
foF1	MED									U 430	450	460		480	470	440	440								
	CNT									5	20	17		20	15	18	11	1							
foE	MED								200	280	310	330	340	350	345	335	315	300	250	E 170					
	CNT								22	22	23	23	20	20	19	23	20	22	17	14					
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 55 SECONDS. AUGUST, 1961

TABLE 57

RAROTONGA, COOK IS. (21.2S, 159.8W) TIME 165.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	44	43	41	37	30	29	41	70	81	106	109	80	81	79	78	77	81	78	70	66	61	53	50	47
	CNT	23	26	29	29	30	31	30	31	29	30	31	30	30	31	30	30	28	24	27	30	29	26	25	24
	UQ																								
	LQ																								
h'F2	MED								250	250	260	250	270	270	280	290	290	270							
	CNT								1	19	29	30	27	29	30	29	25	7							
	UQ																								
	LQ																								
h'F	MED	250	260	250	230	250	260	260	240	210	200	200	200	200	200	235	230	250	250	230	240	250	260	250	250
	CNT	31	31	31	31	31	31	30	31	30	30	31	30	30	30	29	31	31	31	31	31	31	31	31	31
	UD																								
	LD																								
M(3000)F2	MED	300	300	325	320	290	295	310	350	340	340	360	340	340	335	325	320	330	335	320	300	300	300	300	300
	CNT	23	26	29	29	30	31	30	31	28	30	31	30	30	31	30	30	28	24	27	30	29	26	25	24
	UQ																								
	LQ																								
foF1	MED										450	470	470	470	470	430	430	500							
	CNT										13	23	28	25	23	10	2	1							
foE	MED	E	E	E	E	E	E			290	320	340	350	350	340	330	310	270	190	E	E	E	E	E	E
	CNT	6	8	10	9	14	17	120	230	22	25	24	27	20	22	21	19	19	20	6	10	10	2	4	3
h'E	MED	E	E	E	E	E	E			100	100	100	100	100	100	100	100	105	110		E	E	E	E	E
	CNT	6	8	10	9	15	18	150	105	30	30	30	30	30	31	31	30	30	25	7	11	10	2	4	6
foEs	MED	E	E	J	J	J	J	J	J	J	J	J	J		J	J	J	J	J	J	J	J	J	J	J
	CNT	27	27	15	23	24	25	26	34	35	36	37	37	36	36	38	36	34	30	31	25	27	29	23	12
				30	27	26	28	27	30	30	30	31	30	30	31	31	31	30	30	28	25	27	26	28	27

SWEEP AUGUST, 1961

TABLE 58

PARAMARIBO, SURINAM (5.8N, 55.2W) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	89	88	89	88	84	78	74	66	63	59	62	65	J	82	90	U	103	112	114	114	114	109	91	88
	CNT	13	10	15	16	18	17	19	16	19	22	24	23	75	15	12	95	10	12	17	24	19	19	17	14
	UQ	98	93	102	99	87	82	77	70	68	62	67	65	22	87	92	9	104	113	116	118	120	116	105	94
	LQ	84	78	81	80	78	72	58	58	57	59	58	62	65	75	88	102	95	103	103	110	102	100	87	88
h'F2	MED											U	280	350	365	360	370	410	390	360	345	330	325		
	CNT											475	6	11	18	13	18	23	25	23	24	19	14		
	UQ											1													
	LQ																								
h'F	MED	300	295	260	245	240	260	255	255	245	250	240	225	220	200	200	U	U	U	U	U	220	250	255	300
	CNT	28	28	28	28	28	28	27	27	27	28	27	22	21	14	6	200	200	205	210	225	10	16	26	26
	UD																4	1	1	3	3				
	LD																								
M(3000)F2	MED	295	300	310	335	320	325	325	325	340	345	345	345	305	290	280	280	285	295	295	305	295	310	305	305
	CNT	13	10	15	16	18	17	19	16	19	22	24	23	22	15	11	9	10	12	17	24	19	19	17	14
	UQ																								
	LQ																								
foF1	MED												U	480	490	520	520			U	U	530	U		
	CNT												1	6	13	5	3			500	480	6	470		
foE	MED											200	270	340	U	U	E		U	360	350	320	260		
	CNT											25	22	16	4	3	440		400	5	13	12	11		
h'E	MED											125	100	100	100	105	100	U	U	105	100	100	100		
	CNT											24	26	21	10	7	9	110	3	7	16	12	10		
foEs	MED																								
	CNT																								

SWEEP 1.4 MC TO 20.0 MC IN 40 SECONDS. JUNE, 1961

TABLE 59

PARAMARIBO, SURINAM (5.8N, 55.2W) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U																						
	CNT	86	81	70	57	54	51	39	32	29	41	73	84	101	108	112	114	116	113	114	118	128	127	114	98
	UD	4	4	8	9	14	16	16	21	21	23	22	23	20	19	24	20	18	13	14	11	9	15	17	11
	LQ			88	80	72	61	50	47	45	53	78	104	110	117	120	120	119	120	118	126	131	130	126	117
				61	55	50	44	30	26	24	29	60	81	91	104	104	104	106	108	111	110	106	120	106	87
h'F2	MED												260	260	270	280	285	305	305	310	310	U	U		
	CNT												11	15	20	24	22	16	17	12	11	260	275		
	UQ																					4	1		
	LQ																								
h'F	MED	240	250	250	250	245	245	240	255	300	250	240	230	220	210	210	U	U	U	U	245	250	250	240	240
	CNT	25	24	23	22	25	23	22	22	21	22	24	25	23	10	7	205	220	240	225	13	18	23	25	21
	UQ																2	2	1	4					
	LQ																								
M(3000)F2	MED	U	U	U																					
	CNT	295	305	305	320	310	320	325	315	315	325	340	335	330	325	315	310	295	290	290	290	305	310	310	305
	UQ	4	4	8	9	14	16	16	20	21	23	21	23	20	20	23	20	18	13	14	11	9	15	17	11
	LQ																								
foF1	MED												U	U	U	U	U	U	U	U	U				
	CNT												500	490	490	500	500	560	590	520					
													5	8	9	10	7	4	1	3					
foE	MED														U	U	U	U	U	U					
	CNT										150	220	300	350	380	380	410	420	360	370	340	280	230		
											10	22	21	16	3	5	1	1	3	6	9	9	4		
h'E	MED										E			105	100	95	95	95	90	90	95	105	U		
	CNT										10	125	110	21	8	8	9	11	9	10	14	12	110		
												20	20										3		
foEs	MED																								
	CNT																								

SWEEP 1.4 MC TO 20.0 MC IN 40 SECONDS. FEBRUARY, 1961

TABLE 60

WILKES STATION, ANTARCTICA (66.3S, 110.5E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	50	50	52	55	61	57	63	51	58	54	57	54	49	47	44	37	45	40	29	34	36	38	44	48
	UQ	18	17	18	13	11	7	7	5	12	15	17	16	15	14	12	12	13	16	11	14	19	15	16	18
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LD																								
h'F	MED	210	210	210	210	210	200	200	200	200	210	210	230	250	250	235	250	250	230	240	260	260	250	230	210
	CNT	23	25	27	21	23	18	15	14	20	27	21	23	21	22	21	21	21	22	22	24	25	25	23	24
	UQ																								
	LQ																								
M(3000)F2	MED	U	U	U	U		U	U						U	U	U	U		U	U		U	U	U	U
	CNT	300	290	275	275	270	285	295		U	275	260	290	310	310	290	290		290	300		320	320	320	310
	UQ	13	11	12	8	5	5	5	2	255	275	260	290	6	8	5	6	4	5	5	4	10	10	11	15
	LQ									9	9	13	8												
foF1	MED	U	U	U	U	U	U	U	U	U	U	U	U												
	CNT	370	400	400	410	430	420	420	410	400	390	360	340												
		10	18	21	16	13	10	10	9	16	15	14	7	3										2	4
foE	MED															E	E	E	E	E	E				
	CNT	250	270	300	310	310	310	305	290	280	260	250	215	180	140	100	100	100	100	100	100	160	160	200	225
		24	24	25	22	21	18	16	13	24	25	23	21	23	14	19	23	27	25	23	19	17	15	21	20
h'E	MED	100	100	100	100	100	100	100	100	100	100	100	100	100	100	E	E	E	E	E	E	E			
	CNT	24	27	26	27	27	27	24	23	26	28	24	23	22	15	22	25	26	26	23	21	20	100	100	100
																							19	21	22
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 15 SECONDS. FEBRUARY, 1961

TABLE 61

CAPE HALLETT, ANTARCTICA (72.3S, 170.2E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
foF2	MED	43	40	42	40	37	44	U 54	55	57	55	65	65	60	57	53	56	57	54	54	52	54	50	46	44	
	CNT	22	16	14	18	12	12	14	9	13	13	13	9	12	13	14	20	18	20	17	16	18	14	21	18	
	UQ																									
	LQ																									
h'F2	MED																									
	CNT																									
	UQ																									
	LQ																									
h'F	MED																									
	CNT																									
	UQ																									
	LQ																									
M(3000)F2	MEQ	290	280	270	295	215	255	270	275	260	260	260	250	250	250	255	255	250	250	255	260	265	270	280	280	
	CNT	21	17	14	17	11	15	13	9	15	10	13	8	12	13	13	19	18	20	17	15	18	14	21	17	
	UQ																									
	LQ																									
foF1	MED																									
	CNT																									
foE	MEQ																									
	CNT																									
h'E	MEQ																									
	CNT																									
foEs	MED	G		27	30	34	32	36	G	33	39	G	G	34	38	G	35	G	34	G	G	G	G	G	G	G
	CNT	31		30	30	29	29	30	29	30	29	26	25	28	27	25	28	33	30	31	31	31	31	31	31	

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. DECEMBER, 1960

TABLE 62

SCOTT BASE, ANTARCTICA (77.9S, 166.8E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	42	43	U 43	U 37	46	40	51	U 38	56	56	55	54	55	58	56	57	53	54	56	52	51	51	46	45
	CNT	22	25	21	19	16	13	17	14	16	15	19	18	21	21	19	23	23	20	24	21	18	21	22	23
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	270	260	245	G	G	G	220	G	250	245	230	240	240	250	260	250	250	250	250	260	250	255	270	280
	CNT	20	23	21	16	12	11	15	14	16	14	19	18	18	19	17	22	20	18	22	20	15	20	19	23
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MEQ	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
	CNT	31	31	30	29	26	28	28	29	28	26	28	29	29	29	29	29	29	29	31	31	31	31	31	31

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. DECEMBER, 1960

TABLE 63

CAPE HALLETT, ANTARCTICA (72.3S, 170.2E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
foF2	MED	38	38	38	45	41	44	52	58	70	71	70	66	62	64	60	58	60	62	64	62	60	50	42	43	
	CNT	14	13	11	13	10	10	11	12	14	14	14	16	10	17	15	14	18	18	18	19	15	14	13	15	
	UQ																									
	LQ																									
h'F2	MEQ																									
	CNT																									
	UQ																									
	LQ																									
h'F	MEQ																									
	CNT																									
	UQ																									
	LQ																									
M(3000)F2	MED	280	280	280	280	270	290	270	280	280	270	265	260	250	260	260	260	260	260	260	265	280	270	280	290	
	CNT	14	13	10	11	10	10	10	11	14	14	15	14	9	19	15	14	18	17	18	19	15	13	13	15	
	UQ																									
	LQ																									
foF1	MED																									
	CNT																									
foE	MEQ																									
	CNT																									
h'E	MEQ																									
	CNT																									
foEs	MEQ	G		20	30	30	28	28	35	34	34	32	42	38	G	G	35	36	44	32	28	G	G	G	G	G
	CNT	20		17	15	17	17	18	15	20	20	19	15	14	14	17	19	17	17	17	18	21	16	17	19	19

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. NOVEMBER, 1960

TABLE 64

SCOTT BASE, ANTARCTICA (77.9S, 166.8E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 39	U 40	42	51	56	49	56	58	61	60	63	62	63	61	66	63	59	63	63	59	52	48	48	42
	CNT	20	18	16	12	10	12	10	18	17	19	16	18	20	19	21	20	20	20	21	17	21	19	20	19
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	255	265	255	260	280	260	U 260	260	270	265	260	260	260	260	260	260	260	255	250	265	270	250	255	250
	CNT	18	17	15	12	9	10	7	17	16	19	16	17	20	19	20	18	19	19	18	17	20	18	19	19
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MEQ																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MEQ	G	U 24	U 22	24	G	G	G	G	G	G	G	G	G	G	G	30	G	G	G	G	G	G	G	G
	CNT	21	19	19	17	17	18	18	19	18	19	19	20	20	21	22	22	22	22	22	21	22	21	21	20

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. NOVEMBER, 1960

TABLE 65

CAPE HALLETT, ANTARCTICA (72.3S, 170.2E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	37	35	35	32	33	49	50	65	72	77	69	64	60	59	61	62	63	68	62	69	58	64	44	46
	CNT	26	28	23	25	25	21	20	20	24	28	27	30	26	25	27	28	31	31	30	26	26	26	28	23
	UQ																								
	LQ																								
h' F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h' F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	270	265	270	280	300	290	295	290	280	270	265	265	265	270	275	270	270	270	270	270	270	275	270	260
	CNT	25	27	22	25	22	24	22	22	23	27	23	30	24	23	27	27	30	29	30	26	25	24	23	19
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h' E	MED																								
	CNT																								
fo Es	MED	18	30	18	26	27	30	32	U 30	34	U 30	35	G 31	G 30	G 30	34	29	27	G 30	G 30	G 29	G 29	G 29	12	15
	CNT	29	30	31	31	31	30	30	29	25	31	28				30	30	31						28	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. OCTOBER, 1960

TABLE 66

SCOTT BASE, ANTARCTICA (77.9S, 166.8E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	34	34	38	34	38	41	48	52	56	62	58	56	60	58	57	61	65	64	66	62	54	47	42	39
	CNT	28	26	25	29	27	23	21	23	24	26	26	28	30	30	29	31	29	31	31	31	29	27	28	24
	UQ																								
	LQ																								
h' F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h' F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	260	260	265	270	275	280	275	280	275	270	260	260	255	250	260	260	260	250	260	250	260	265	255	255
	CNT	27	24	22	28	27	21	19	23	21	25	26	27	28	29	29	31	29	31	31	31	28	26	27	23
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h' E	MED																								
	CNT																								
fo Es	MED	G		G		G	U	G	U	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
	CNT	29	20	30	18	29	23	25	26	26	28	27	28	30	30	31	31	30	31	31	31	30	30	30	28

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. OCTOBER, 1960

TABLE 67

CAPE HALLETT, ANTARCTICA (72.3S, 170.2E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	40	37	38	39	46	51	64	68	71	74	69	66	70	66	70	67	70	73	79	80	70	60	48
	CNT	27	26	25	20	15	16	22	22	17	27	26	29	30	28	29	29	29	29	29	28	27	26	24	22
	UQ																								
	LQ																								
h' F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h' F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	270	270	275	270	280	290	305	305	290	295	290	280	295	290	295	280	280	280	280	275	270	280	275	270
	CNT	26	25	25	19	15	14	22	22	18	27	25	29	30	27	28	28	29	29	29	28	27	24	24	21
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h' E	MED																								
	CNT																								
fo Es	MED	U				J	U	U		U	U	U	U	U	U	U	U	U	U			U	E	U	U
	CNT	16	20	22	30	30	32	22	30	33	28	28	28	28	27	34	29	26	24	15	12	11		13	13
		28	30	29	30	29	30	29	30	29	30	30	30	29	29	29	30	30	30	30	30	30	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. SEPTEMBER, 1960

TABLE 68

SCOTT BASE, ANTARCTICA (77.9S, 166.8E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	35	37	39	38	37	38	47	56	62	64	64	68	68	66	72	70	75	80	76	78	72	59	58	41
	CNT	23	23	22	21	23	26	26	28	28	28	30	28	28	27	28	28	27	27	29	28	26	26	21	23
	UQ																								
	LQ																								
h' F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h' F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	265	255	255	260	270	280	280	280	280	280	275	270	270	275	270	270	260	270	270	260	260	255	265	250
	CNT	23	21	21	20	22	25	21	24	26	27	28	23	26	25	27	27	24	25	25	28	25	24	21	19
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h' E	MED																								
	CNT																								
fo Es	MED	E	E	E	E	E	E	U	U	G	G	G	G	G	U	U	G	G	G	E	E	E	E	E	E
	CNT	13	15	14	14	14	16	20	20	28	29	29	28	28		24	28	29	29	29	13	12	12	12	12
		26	28	25	24	27	28	28	30						28	28					30	27	30	30	26

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. SEPTEMBER, 1960

TABLE 69

CAPE HALLETT, ANTARCTICA (72.3S, 170.2E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
foF2	MED	41	33	30	33	33	38	40	46	54	58	60	63	60	64	65	60	64	67	69	68	68	56	47	33		
	CNT	25	25	20	15	15	17	23	22	23	24	23	25	27	30	31	28	28	30	29	29	29	28	26	25		
	UQ																										
	LQ																										
h'F2	MED																										
	CNT																										
	UD																										
	LQ																										
h'F	MED																										
	CNT																										
	UD																										
	LD																										
M(3000)F2	MED	285	280	280	285	280	285	295	290	290	300	315	305	305	305	295	295	285	280	280	290	290	285	295	290		
	CNT	24	23	20	15	13	18	21	20	20	22	22	23	27	29	31	28	28	30	29	28	26	27	25	24		
	UD																										
	LD																										
foF1	MED																										
	CNT																										
foE	MED																										
	CNT																										
h'E	MED																										
	CNT																										
foEs	MED	E		15	20	18	29	21	20	18	29	28	30	28	J 29	35	J 29	J 36	J	40	36	23	21	U 11	E	16	E
	CNT	29		31	29	30	30	30	30	30	31	31	31	30	31	31	31	31	31	30	31	31	31	30	30	31	

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. AUGUST, 1960

TABLE 70

SCOTT BASE, ANTARCTICA (77.9S, 166.8E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	31	31	26	36	28	30	35	31	37	45	52	52	56	56	58	60	58	68	71	64	55	40	40	33
	CNT	27	27	26	19	24	23	23	29	27	27	31	29	30	30	30	30	28	29	31	30	27	28	28	28
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UD																								
	LQ																								
M(3000)F2	MED	275	260	275	265	270	275	270	270	270	275	280	270	280	270	270	270	265	270	265	265	260	260	275	265
	CNT	26	24	23	16	21	23	20	28	27	25	31	29	30	29	30	30	28	29	29	28	26	27	26	26
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	14	15	15	15	13	12	U 12	U 12	19	20	G	22	22	30	25	24	U 15	U 14	U 12	U	U	U	U	U 12
	CNT	31	31	31	27	30	27	27	31	31	31	31	30	30	31	30	30	30	31	31	31	31	31	30	31

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. AUGUST, 1960

TABLE 71

CAPE HALLETT, ANTARCTICA (72.3S, 170.2E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	36	30	34	38	30	36	38	37	36	46	53	54	55	54	57	57	57	54	58	69	65	58	40	37
	CNT	20	18	20	11	19	15	14	11	14	13	20	20	22	24	25	25	27	26	25	24	21	22	20	21
	UQ																								
	LD																								
h'F2	MED																								
	CNT																								
	UQ																								
	LD																								
h'F	MED																								
	CNT																								
	UQ																								
	LD																								
M(3000)F2	MED	280	290	290	310	285	300	310	285	275	300	310	310	305	310	305	285	290	280	290	290	300	290	290	280
	CNT	16	16	18	11	17	14	12	9	13	12	18	16	21	24	25	25	27	26	22	20	17	21	19	18
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	18	27	19	25	32	30	24	24	28	32	30	30	34	35	J 33	J 42	34	20	18	35	17	18	E	11
	CNT	28	28	27	27	28	26	26	28	28	31	30	29	30	29	29	30	30	29	29	28	29	29	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. JULY, 1960

TABLE 72

SCOTT BASE, ANTARCTICA (77.9S, 166.8E) TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	30	28	32	26	31	29	30	31	32	36	40	42	49	53	57	55	55	60	56	60	46	42	36	31
	CNT	20	17	17	18	19	23	20	18	23	27	28	29	29	27	28	29	29	29	26	27	29	29	28	27
	UD																								
	LQ																								
h'F2	MED																								
	CNT																								
	UD																								
	LD																								
h'F	MED																								
	CNT																								
	UQ																								
	LD																								
M(3000)F2	MED	270	280	270	275	270	275	275	270	275	275	260	270	270	265	270	270	260	260	270	275	270	270	265	260
	CNT	20	16	14	16	16	21	19	15	21	26	25	24	29	27	28	28	28	28	24	26	27	28	25	26
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	E 14	21	20	19	E 14	E 13	E 14	E 14	16	18	17	20	21	16	21	20	E 13	E 12	E 12	E 12	13	12	12	E 12
	CNT	26	27	26	27	26	25	25	24	26	30	29	28	30	29	29	30	29	29	29	31	31	30	30	31

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS. JULY, 1960

TABLE 73

PARAMARIBO, SURINAM (5.8N, 55.2W) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 127	U 126	U 128	137	103	90	80	71	63	61	81	101	115	125	132	144	139	140	138	134	133	130	127	U 122
	CNT	9	6	9	11	15	21	23	26	25	24	27	27	27	28	25	21	22	21	19	23	20	19	15	8
	UQ	137	127	145	132	115	103	87	80	74	68	88	111	125	134	144	152	150	152	149	143	139	139	133	131
	LQ	112	124	115	103	84	81	74	66	58	54	74	97	109	117	127	129	130	127	131	127	124	117	112	112
h'F2	MED											U 550		U 275	U 275	U 280	U 310	U 310	U 310	U 335	U 350	U 370			
	CNT											1		3	3	3	6	11	5	5	5	1			
	UQ																								
	LQ																								
h'F	MED	305	280	260	255	250	255	250	U 250	U E 270	290	255	240	240	240	U 270	U 290	U U 295	U 265	U 270	U 250	250	260	305	335
	CNT	30	30	29	28	28	26	25	23	21	12	28	27	23	11	1	1	1	2	6	9	15	19	26	30
	UQ																								
	LQ																								
M(3000)F2	MED	U 265	U 275	U 300	305	300	295	295	290	285	280	310	310	295	285	285	285	280	280	280	270	270	265	260	U 260
	CNT	9	6	9	11	15	21	23	26	24	24	27	27	27	28	25	21	22	21	19	23	20	19	15	8
	UQ																								
	LQ																								
foF1	MED											U 640		U 500						U 720					
	CNT											1		1						2					
foE	MED												U 310	U 360	U 380	U 420	U 420	U 430	U 410	390	360	300	U 200	E	
	CNT												9	9	9	1	2	3	4	10	14	10	5	1	
h'E	MED												U 120	U 110	U 110	U 120	U 115	U 120	U 115	120	115	115	U 110	E	
	CNT												3	3	2	1	3	1	4	8	5	10	3	1	
foEs	MED																								
	CNT																								

SWEEP 1.4 MC TO 20.0 MC IN 40 SECONDS. APRIL, 1960

TABLE 74

OTTAWA, CANADA (45.4N, 75.9W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	40	40	40	38	35	34	39	68	89	102	113	119	116	118	118	110	100	89	73	60	51	46	43
	CNT	31	31	31	31	30	29	30	31	31	31	31	31	31	31	31	30	31	31	31	31	31	30	30	29
	UQ																								
	LQ																								
h'F2	MED												1	2	1										
	CNT																								
	UQ																								
	LQ																								
h'F	MED	285	290	300	290	290	290	300	285	240	230	230	230	230	230	240	230	220	220	230	240	250	270	270	280
	CNT	31	29	29	28	28	27	28	30	30	30	31	31	31	31	31	30	30	31	31	31	30	29	30	28
	UQ																								
	LQ																								
M(3000)F2	MED	300	U 290	U 290	300	U 300	300	U 300		330	330	320	320	320	310	310	U 310			U 310	310	300	U 310	U 300	U 300
	CNT	10	7	8	10	7	9	6	3	27	24	17	18	19	17	10	8	2	3	7	11	9	8	8	5
	UQ																								
	LQ																								
foF1	MED												1	1	1										
	CNT																								
foE	MED									200	260	290	300	300	300	290	250	200							
	CNT									22	27	27	26	24	24	22	23	18							
h'E	MED									1	115	115	110	110	110	110	125	1							
	CNT										15	21	23	21	18	16	12								
foEs	MED	U 31	U 30	U 30	U 40		U 36	U 40		G 20	G 26	G 29	G 30	G 30	G 30	G 29	G 25	G 20	U 30	U 30					U 35
	CNT	6	8	7	7	2	8	6	3	22	24	27	26	26	25	23	23	22	8	5	3	3	4	3	5

SWEEP 1.0 MC TO 20.0 MC IN 16 SECONDS. DECEMBER, 1959

TABLE 75

TAIPEI (TAIWAN), CHINA (25.0N, 121.5E) TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	72	65	64	58	43	39	50	94	124	141	147	152	D 160	169	D 175	D 175	176	170	153	148	147	134	102	81
	CNT	31	31	30	31	28	29	31	31	30	31	31	31	29	29	29	29	28	30	30	30	31	31	30	31
	UQ	88	80	73	63	50	48	62	107	132	145	152	160	167	174	177	180	181	178	171	174	168	146	117	192
	LQ	58	59	57	49	38	34	39	94	115	130	137	143	149	155	172	170	165	153	140	128	122	110	82	161
h'F2	MED														U 320	U 340									
	CNT														1	1									
	UQ																								
	LQ																								
h'F	MED	280	280	260	240	250	300	290	250	240	240	240	230	240	230	240	240	240	230	220	230	240	230	240	260
	CNT	31	31	31	31	29	27	31	31	30	31	31	31	30	29	29	30	29	30	31	31	31	31	31	30
	UQ																								
	LQ																								
M(3000)F2	MED	270	285	300	290	300	265	270	310	320	315	305	285	285	290	290	290	300	295	295	295	295	300	295	265
	CNT	30	29	29	31	27	29	31	28	29	31	30	27	25	26	25	24	25	29	28	28	31	31	28	29
	UQ	275	305	320	325	330	280	280	320	330	320	315	295	290	295	295	300	310	300	305	300	310	310	305	280
	LQ	250	270	290	275	265	250	260	300	310	300	295	280	280	280	285	285	290	290	280	280	290	290	280	255
foF1	MED														U 660	U 590									
	CNT														1	1									
foE	MED																	260							
	CNT																	2							
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E		E	E	E			E	E	E				E	E	E	E	E
	CNT	19	20	18	18	17	17	17		29	33	38	44	47	40	43	38	31	28	24	23	23	23	22	21
		11	24	20	30	28	29	30	27	17	16	25	31	30	27	31	30	26	30	30	24	28	27	16	13

SWEEP 1.1 MC TO 19.5 MC IN 15 MINUTES. DECEMBER, 1959

TABLE 76

POITIERS, FRANCE (46.6N, 0.3E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
foF2	MED	U 63	U 60	U 58	U 54	U 51	U 45	U 57	68	74	80	86	90	94	97	98	95	U 95	U 85	D 85	D 84	U 80	U 72	U 68	U 66	
	CNT	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	
	UQ																									
	LQ																									
h'F2	MED						U 380	U 535	275	322	290	380	342	330	330	335	340	330	U 302							
	CNT						1	3	5	18	15	17	18	19	18	18	12	7	3							
	UQ																									
	LQ																									
h'F	MED	310	315	308	305	285	280	255	240	232	225	228	225	232	225	238	240	245	250	250	240	245	252	270	310	
	CNT	29	29	30	30	30	30	29	30	29	29	30	30	29	29	29	29	30	27	30	30	30	30	30	29	
	UQ																									
	LQ																									
M(3000)F2	MED	240	240	240	240	245	258	280	290	280	272	265	272	275	272	275	268	275	U 278	U 270	U 300	U 285	U 260	245	248	
	CNT	9	13	14	19	19	24	24	27	23	20	21	18	18	18	23	12	11	6	1	1	3	13	7	8	
	UQ																									
	LQ																									
foF1	MED						U 260	U 320	U 420	U 460	U 490	U 520	U 560	U 580	U 590	U 550	U 560	U 530								
	CNT						1	3	8	18	16	16	18	20	17	17	12	7								
foE	MED					E		180	260	300	330	358	370	380	370	360	340	300	250	E	E					
	CNT					19		25	27	29	29	24	28	22	21	28	29	27	24	27	10					
h'E	MED					E		145	110	105	105	105	105	105	105	105	105	110	115	E	E					
	CNT					19		25	27	28	30	29	29	29	27	29	30	26	21	27	10					
foEs	MED	E	E	E	E	E		22	22	30	32	36	38	36	38	39	28	35	34	29	24	25	26	24	22	E
	CNT	29	29	30	30	30		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	

SWEEP 1.5 MC TO 16.5 MC. SEPTEMBER, 1959

TABLE

SOTTENS, SWITZERLAND (46.6N, 6.7E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	58	59	60	52	51	46	45	65	68	67	82	79	84	89	88	87	88	85	84	79	74	70	63	58
	CNT	19	18	19	17	9	15	22	13	17	19	18	15	14	18	16	18	10	12	14	16	14	16	12	13
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	290	290	290	280	280	290	310	340	340	340	330	320	320	330	330	320	330	330	340	350	340	330	300	290
	CNT	19	17	16	15	7	13	21	13	16	19	17	13	15	18	16	17	10	12	14	15	14	13	10	12
	UQ																								
	LQ																								
fo F1	MED									460	520	570	580	590	600	600	580	570	530	520					
	CNT							1	2	13	20	19	16	16	20	16	17	10	10	3					
fo E	MEQ							210	230	280	320	340	350	360	350	360	340	320	280	250					
	CNT							3	14	23	19	20	23	24	24	26	26	25	24	15	1				
h'E	MEQ							100	100	100	100	100	100	100	100	100	100	100	100	100					
	CNT							3	14	23	19	20	23	24	24	26	26	25	24	15	1				
fo Es	MEQ																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

SEPTEMBER, 1959

TABLE 78

TAMANRASSET, ALGERIA (22.8N, 5.5E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	D 120	D 135	D 115	D 90	D 80	73	90	108	118	125	134	148	154	150	D 150	D 160	D 170	140	D 160	D 0	D 90	D	D	140
	CNT	6	9	15	11	10	13	20	21	25	26	26	24	25	25	21	17	10	5	8	6	1		6	8
	UQ																								
	LQ																								
h'F2	MED							C 1	250 7	245 9	U 250 3	U 450 1	352 8	372 10	360 15	360 20	355 15	325 7	U 300 1						
	CNT																								
	UQ																								
	LQ																								
h'F	MED	275 25	260 24	245 24	240 25	240 22	260 23	245 24	245 24	230 19	215 17	210 19	222 16	210 20	220 21	225 20	235 21	245 21	255 19	295 21	308 22	292 20	290 23	285 23	265 23
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MEQ		270	315	285	260	260	315	330	315	292	288	280	270	275	265	U 285	U 280	U 280				U 275	285	
	CNT	4	5	9	6	7	12	15	21	23	24	24	20	16	13	6	4	3	3	3	4	1		2	4
	UQ																								
	LQ																								
fo F1	MED							U 340 1	U 430 1	U 500 1	U 550 1	U 560 1	U 650 1		U 630 2	U 650 2									
	CNT																								
fo E	MEQ	E	E	E	E	E	E	220	300	345	U 375	400	405	410	400	380	370	308	220	E	E	E	E	E	E
	CNT	9	7	10	7	11	15	21	13	8	11	16	13	11	15	15	17	22	12	8	11	6	4	5	6
h'E	MEQ	E	E	E	E	E	E	120	110	105	105	105	105	105	105	105	105	105	110	E	E	E	E	E	E
	CNT	9	7	10	7	11	16	18	19	19	20	22	19	18	20	20	19	19	15	11	11	6	4	5	6
fo Es	MED	G	E	22	19	19	21	26	31	45	45	46	48	46	G	G	G	31	29	26	20	21	22	20	E
	CNT	22	20	20	21	19	20	21	22	21	23	22	19	17	22	23	22	24	20	22	22	20	19	21	18

SWEEP 1.36 MC TO 17.2 MC.

SEPTEMBER, 1959

TABLE 79

BANGUI, CENTRAL AFRICAN REPUBLIC (4.6N, 18.6E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MEQ	U 108	U 116	U 110	110	88	U 62	88	112	130	138	139	138	130	130	127	125	124	117	115	D 115	U 122	U 116	U 115	U 130
	CNT	1	2	4	5	7	2	13	21	23	23	22	21	20	22	22	22	22	14	14	7	2	2	1	1
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	250	250	230	225	225	230	255	240	228	210	200	U 200	U 200	U 200	U 210	215	240	260	310	410	345	300	260	230
	CNT	17	20	20	21	19	17	19	20	11	9	5	4	4	2	3	11	12	23	26	17	5	7	5	11
	UQ																								
	LQ																								
M(3000)F2	MED	U 290	U 305	U 318	U 335	330	U 348	328	328	305	270	245	228	230	218	220	215	220	222	220	205	U 255	U 270	U 250	
	CNT	1	2	4	4	5	2	10	18	19	25	20	18	21	20	22	22	19	14	13	5	2	1	1	
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED						E	U 235	U 300	U 350							U 355	U 310	240	E	E				
	CNT						1	2	8	3							2	2	10	10	1				
h'E	MED						E	130	110	105	100	U 100			U 100	102	105	110	115	E	E				
	CNT						1	11	23	14	6	2			1	7	10	16	16	10	1				
fo Es	MEQ	E		21	20	22	27	28	33	44	60	50	54	U 46	48	G	G	G		24	22	E	E	E	E
	CNT	22		23	23	19	18	21	22	16	7	8	5	4	5	8	11	20		25	24	23	25	25	23

SWEEP 1.36 MC TO 17.2 MC.

SEPTEMBER, 1959

TABLE 80

POITIERS, FRANCE (46.6N, 0.3E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	U 70	U 68	U 66	U 63	U 59	U 59	U 64	U 74	U 80	U 82	U 88	U 90	U 87	U 85	U 88	U 85	U 88	U 85	U 88	U 90	U 80	U 80	U 75	U 70
	CNT	31	29	30	30	30	31	31	28	28	30	31	28	31	31	31	30	31	30	30	28	28	29	27	28
	UQ																								
	LQ																								
h'F2	MED						U 350	305	325	300	355	385	370	382	380	360	358	340	320	E 285	U 310				
	CNT						3	12	13	16	17	22	21	24	26	28	25	19	12	9	1				
	UQ																								
	LQ																								
h'F	MED	315	315	310	305	300	280	250	242	230	225	235	E 245	230	E 230	230	240	240	250	265	265	265	270	270	300
	CNT	31	31	31	30	31	30	29	28	26	25	28	26	27	28	26	26	28	23	21	29	27	30	27	29
	UQ																								
	LQ																								
M(3000)F2	MED	240	240	245	245	245	260	285	290	278	270	275	265	260	260	265	265	265	U 265	U 270	U 275	U 262	U 255	U 255	240
	CNT	15	19	21	17	22	30	27	21	24	25	21	19	24	26	26	25	26	18	10	5	2	6	9	8
	UQ																								
	LQ																								
fo F1	MEQ						U 300 3	U 410 11	470 13	U 530 17	U 560 16	560 22	560 21	590 25	590 24	580 25	560 22	U 530 18	U 500 6	U 420 1					
	CNT																								
fo E	MED					E	E	240	300	338	360	380	390	390	400	398	380	348	308	240	E	E			
	CNT					3	30	28	30	30	28	27	27	25	20	20	21	24	26	27	25	7			
h'E	MED					E	E	115	105	100	100	100	100	100	100	100	100	105	110	115	E	E			
	CNT					3	31	28	31	31	31	31	30	30	28	31	30	27	30	29	25	7			
fo Es	MED	25	23	23	22	22	23	30	35	42	45	48	46	43	45	46	43	41	43	41	37	43	37	37	29
	CNT	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	28	31

SWEEP 1.5 MC TO 16.5 MC.

AUGUST, 1959

TABLE 81

TAMANRASSET, ALGERIA (22.8N, 5.5E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	O 86	104	90	86	75	75	90	92	96	100	114	125	136	140	145	C 145	O 142	142	O 134	D 129	130	130	U 114	O 115
	CNT	10	14	18	18	19	21	24	25	25	28	29	25	28	25	25	24	20	14	10	8	7	5	4	7
h' F2	MED							U 250	245	250	U 280	395	398	400	395	398	380	360	340	U 300					
	CNT							1	8	5	1	5	12	16	20	26	21	21	11	3					
h' F	MED	298	270	258	250	250	250	245	240	230	220	230	240	235	230	225	235	245	255	290	285	300	332	325	300
	CNT	23	24	24	22	22	22	26	25	21	18	20	19	19	20	21	23	22	21	19	17	16	18	23	24
M(3000)F2	MED		270	295	308	295	302	340	330	315	285	260	260	268	270	270	270	270	290	U 290		255	U 255		U 250
	CNT	5	8	16	12	15	22	23	25	24	28	29	25	26	21	17	12	11	8	1	6	5	3		3
fo F1	MED									U 500		U 670	U 640	630	640	620	U 630								
	CNT									1		4	6	9	7	6	3								
fo E	MED	E			E	E	E		245	355	390	410	415	425	420	400	380	350	282	145	E 5	E	E		
	CNT	1			3	6	13	12	12	10	11	13	14	11	13	12	16	16	14	5	5	2	2		
h' E	MED	E			E	E	E	120	105	105	100	100	100	100	102	105	105	105	105	E	E	E	E		
	CNT	1			3	6	13	18	20	21	26	22	19	18	18	19	22	21	17	8	5	2	2		
fo Es	MED	22	20	20	23	23	23	34	46	56	60	49	46	43	43	44	42	39	34	34	31	27	24	20	23
	CNT	23	23	23	22	24	22	22	24	24	28	28	25	25	27	24	27	27	25	24	21	19	22	21	23

SWEEP 1.36 MC TO 17.2 MC. AUGUST, 1959

TABLE 82

BANGUI, CENTRAL AFRICAN REPUBLIC (4.6N, 18.6E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	U 88	U 88	U 88	80	67	52	78	113	132	138	142	139	137	136	120	116	O 116	118	115	O 114			U 104	
	CNT	1	1	1	5	11	13	16	21	23	20	20	19	21	16	17	16	20	15	14	12			1	
h' F2	MED									U 275				U 430	U 460	U 455	U 560								
	CNT									1				3	3	2	1								
h' F	MED	260	250	250	245	242	240	260	250	245	228	220	U 205	U 205	200	210	220	245	250	295	388	350	U 250	295	295
	CNT	8	12	17	17	16	18	16	20	20	10	7	4	4	6	9	14	14	21	22	22	5	3	5	6
M(3000)F2	MED				U 305	318	320	305	300	300	280	265	250	230	210		215	210	230	220					
	CNT				3	10	10	15	20	20	19	18	18	20	18	18	17	13	10	7	12	1			
fo F1	MED																								
	CNT																								
fo E	MED							U 202	300	365	U 395	410	430	U 430	U 420	U 400	U 380	U 330	270	160	E				
	CNT							2	9	6	4	6	5	2	3	3	3	1	13	7	4				
h' E	MED							E 130	105	105	100	100	100	105	100	102	100	105	110	150	E				
	CNT							1	18	16	13	6	7	6	5	6	11	16	16	5	4				
fo Es	MED	24	24	27	30	28	32	32	41	46	48	59	56	55	47	37	G	G	29	24	E	E	E	E	21
	CNT	22	21	21	19	19	19	19	22	24	19	11	10	9	9	10	14	18	23	20	23	22	23	22	23

SWEEP 1.36 MC TO 17.2 MC. AUGUST, 1959

TABLE 83

POITIERS, FRANCE (46.6N, 0.3E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	U 75	U 74	U 70	U 66	U 62	67	69	74	78	76	81	84	83	U 82	U 82	82	82	U 83	U 85	U 83	85	D 75	U 84	U 76
	CNT	31	31	31	30	31	29	31	31	31	31	28	30	30	30	28	29	31	30	30	27	28	29	29	30
h' F2	MED					U 350	360	328	310	408	375	370	395	408	380	405	380	362	335	308	E 310				
	CNT					1	7	18	25	24	29	23	25	28	28	28	27	28	23	22	6				
h' F	MED	300	310	295	300	310	270	250	E 250	E 240	E 230	215	225	230	222	230	230	240	240	252	270	270	280	300	300
	CNT	30	30	29	30	30	28	28	28	25	25	21	24	25	23	26	24	25	25	24	22	27	28	26	29
M(3000)F2	MED	240	240	U 250	245	250	260	270	260	260	260	252	255	250	265	255	260	260	265	U 270	265	U 260	U 250	U 245	U 245
	CNT	15	16	21	22	25	26	25	27	27	27	22	23	24	25	26	27	26	24	20	11	3	3	3	6
fo F1	MED					U 250	U 360	410	500	520	540	550	570	580	580	580	550	530	U 490	U 450	U 360				
	CNT					1	6	17	26	22	28	23	23	27	24	26	24	25	19	17	2				
fo E	MED					E	200	270	315	350	372	385	390	395	400	400	375	360	320	280	205	E	E		
	CNT					30	27	30	31	30	30	29	28	27	23	29	29	30	31	29	27	28	1		
h' E	MED					E	125	110	105	100	100	100	100	100	100	100	100	105	110	110	125	E	E		
	CNT					30	27	30	31	31	31	31	30	30	29	31	31	31	31	29	29	28	1		
fo Es	MED	23	22	21	23	24	29	32	39	44	45	47	45	46	44	42	43	40	36	36	31	32	26	25	24
	CNT	31	31	31	31	31	31	31	31	31	31	31	30	31	30	31	31	31	31	31	31	31	31	31	31

SWEEP 1.5 MC TO 16.5 MC. JULY, 1959

TABLE 84

TAMANRASSET, ALGERIA (22.8N, 5.5E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	124	105	78	82	76	76	88	90	92	97	106	116	126	139	D 140	140	140	140	O 129	O 128	U 128	U 128	U 130	O 116
	CNT	7	8	10	13	16	19	24	23	22	18	18	18	17	18	20	16	19	18	14	8	3	3	3	5
h' F2	MED							U 250	U 245	U 350	U 355	400	415	400	400	395	365	352	318	U 300					
	CNT							1	1	3	2	8	5	11	17	19	19	16	8	1					
h' F	MED	295	272	265	280	258	282	250	240	230	225	230	210	248	232	220	235	245	250	278	302	350	350	350	315
	CNT	20	24	22	23	22	23	24	16	10	9	8	5	6	6	7	12	12	11	14	12	15	17	19	21
M(3000)F2	MED	290	280		272	278	288	320	320	290	268			260	260	270	270	280	270	275					
	CNT	5	6	11	12	14	18	18	23	21	20	24	23	21	18	13	9	11	13	6	6	10	9	8	3
fo F1	MED										U 630	U 610	U 580	U 610	U 600	U 600	U 580	U 580							
	CNT										1	2	3	4	4	8	5	2							
fo E	MED	E	E	E	E	E	E	265	330	368	395	410	420	428	425	400	380	340	280	U 165	E	E	E		
	CNT	1	3	4	6	9	5	13	12	12	12	9	8	6	7	7	12	10	13	4	1	4	2		
h' E	MED	E	E	E	E	E	E	110	105	105	105	105	105	105	105	105	105	105	105	E	E	E	E		
	CNT	1	3	4	6	9	6	18	19	24	20	22	13	16	18	20	22	20	19	14	1	4	2		
fo Es	MED	24	23	20	22	23	31	35	40	55	60	53	62	67	63	56	43	36	35	34	35	31	26	28	27
	CNT	25	25	25	25	25	25	23	19	17	16	15	15	15	16	16	17	19	24	24	24	24	23	23	23

SWEEP 1.36 MC TO 17.2 MC. JULY, 1959

TABLE 86

BANGUI, CENTRAL AFRICAN REPUBLIC (4.6N, 18.6E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED		U 90	U 83	74	64	67	78	116	132	144	141	D 130	129	117	D 112	112	115	115	D 116	D 113				
	CNT		1	3	8	11	20	22	25	24	25	24	22	19	17	19	22	19	20	16	13				
	UQ																								
	LQ																								
h'F2	MED								U 250	U 305	U 300	U 395	U 400	U 450	U 460										
	CNT								1	1	3	1	1	1	2										
	UD																								
	LQ																								
h'F	MED	270	250	250	245	245	240	268	250	242	228	215	210	205	205	205	215	245	250	295	350	U 350	U 348	U 370	U 300
	CNT	11	10	14	17	17	24	26	23	18	14	19	20	14	16	17	23	22	25	25	26	2	2	3	4
	UD																								
	LD																								
M(3000)F2	MED				310	310	320	300	308	305	285	265	248	225	210	210	220	225	235	245	230				
	CNT	1	1	1	7	10	16	21	22	17	16	15	10	13	14	11	15	11	11	6	7				1
	UQ																								
	LQ																								
foF1	MED															U 620									
	CNT															1									
foE	MED						E	U 190	300	350	380	402	420	420	410	400	370	335	270	175	E				
	CNT							3	15	15	22	16	20	17	15	17	12	8	15	5	2				
h'E	MED						E	U 140	105	105	105	105	105	105	105	105	105	105	110	E	E				
	CNT						1	1	22	23	25	21	20	18	18	23	21	19	9	2	2				
foEs	MED	23	24	27	30	32	32	35	50	57	58	59	56	54	46	43	44	44	45	32	22	20	18	20	23
	CNT	24	24	24	27	27	27	27	25	26	27	28	28	25	25	27	30	28	28	28	28	22	19	26	24

SWEEP 1.36 MC TO 17.2 MC.

JULY, 1959

TABLE 86

OTTAWA, CANADA (45.4N, 75.9W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	60	54	50	45	42	49	55	56	60	62	64	65	65	66	68	68	69	70	72	72	72	72	70	66
	CNT	30	30	30	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29
	UQ																								
	LQ																								
h'F2	MED								460	490	480	460	500	510	500	490	470	440	400	380					
	CNT							4	14	20	20	23	25	25	24	28	29	30	19	8					
	UQ																								
	LD																								
h'F	MED	300	300	300	300	300	270	250	240	230	230	210	200	200	210	210	220	230	240	250	270	280	270	280	280
	CNT	25	29	25	24	25	25	24	28	23	25	23	23	20	16	25	26	28	27	18	17	19	16	20	17
	UD																								
	LQ																								
M(3000)F2	MED						U 290	290	280	U 260	U 270	U 260	U 260	U 260	240	250	250	260	270	270	270	U 280			U 260
	CNT	4	3	1	1	2	9	10	12	5	7	6	9	6	13	16	21	25	18	19	19	6	3	4	7
	UQ																								
	LQ																								
foF1	MED							U 400	460	500	520	530	550	550	550	540	530	500	480	U 440					
	CNT							6	16	24	26	28	29	29	30	30	29	29	16	5					
foE	MED						220	280	320	360	390	400	400	400	400	400	390	370	340	290	240	180			
	CNT					2	23	26	24	27	28	26	27	24	24	25	27	30	30	29	28	12			
h'E	MED						130	110	110	100	100	100	100	100	100	100	100	100	105	105	115				
	CNT						17	17	20	21	22	23	22	17	18	22	25	28	30	29	26				
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 16 SECONDS.

JUNE, 1959

TABLE 87

MADRAS, INDIA (13.1N, 80.3E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	139	126	118	94	78	66	82	120	135	137	127	118	121	123	132	136	138	133	121	118	126	134	140	140
	CNT	30	28	26	26	26	28	31	31	31	30	30	27	27	15	27	30	29	27	30	30	24	29	26	30
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LD																								
M(3000)F2	MED						U 295	305	295	260	240		225	225	U 230	225	225	U 225							
	CNT						5	15	26	29	19	4	10	15	6	20	20	7	3	1					1
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL.

MARCH, 1959

TABLE 88

EUREKA, CANADA (80.0N, 85.9W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	66	68	72	68	70	68	68	66	66	66	65	72	73	73	72	70	68	72	72	69	70	67	67	66
	CNT	23	23	24	24	25	23	22	22	23	23	22	21	22	23	22	20	21	22	23	23	23	23	22	23
	UQ																								
	LQ																								
h'F2	MED											U 400		380	400	U 350	U 400	U 380		U 470					
	CNT						1				4	8	3	10	9	5	7	5	4	5	1		1		
	UD																								
	LQ																								
h'F	MED	270	270	270	270	260	270	270	270	260	260	260	260	250	260	250	260	260	270	270	280	280	280	280	270
	CNT	22	23	23	23	24	22	23	22	22	18	18	18	17	18	17	18	18	20	21	21	23	24	22	23
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED											450	U 420	450	450	U 440	U 430	U 400	U 400	U 360					
	CNT					1	2	1	1	1	4	9	7	11	11	8	7	7	6	6	1	1	2		
foE	MED						U 200	220	220	240	250	260	270	290	290	280	280	270	250	240	220	210			
	CNT	2				1	5	10	14	16	12	12	13	12	12	14	16	15	17	14	10	9	4	1	1
h'E	MED									U 140	U 130	U 140	U 120	U 120	U 120		U 130	U 130	U 140						
	CNT							1	2	7	5	6	8	8	6	4	8	8	8	2	2	1			
foEs	MED																								
	CNT																								

SWEEP 1.7 MC TO 20.0 MC IN 15 SECONDS.

SEPTEMBER, 1958

TABLE 89

CLYDE RIVER, CANADA (70.5N, 68.6W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	63	63	63	57	54	56	62	62	67	70	74	71	73	73	76	72	72	74	77	73	72	69	70	66
	CNT	21	22	24	21	23	24	23	22	22	20	24	24	23	24	22	20	22	24	23	23	23	23	22	22
	UQ																								
	LQ																								
h'F2	MED								U 700	U 630	640	600	600	540	550	U 540	U 550	U 600							
	CNT					1	2	1	5	5	11	11	16	12	13	7	5	5	4	1					
	UQ																								
	LQ																								
h'F	MED	330	370	350	350	360	330	320	310	310	300	310	310	310	300	300	310	320	340	340	360	340	340	350	330
	CNT	19	19	18	16	20	14	12	16	11	13	14	15	13	15	13	13	11	13	15	13	19	18	15	17
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED								U 400	U 400	450	440	450	470	470	450	440	U 400							
	CNT					1	2	1	5	7	13	14	19	18	15	12	10	6	4	1					
foE	MED					U 180	U 200	220	260	280	300	300	310	310	310	300	300	260	250	U 200	U 160				
	CNT				2	7	8	12	13	12	13	12	11	18	19	18	13	14	15	7	5				
h'E	MED							U 150	U 130	U 120	U 120	120	120	120	130	U 120	U 130	U 130							
	CNT							5	6	7	8	11	11	11	10	8	8	5	4	1	1				
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. SEPTEMBER, 1958

TABLE 90

FROBISHER BAY, CANADA (63.8N, 68.6W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	61	60	52	50	50	50	56	57	73	75	66	85	89	82	79	79	80	80	75	73	70	71	68	66
	CNT	21	22	21	20	21	22	23	21	21	22	22	23	23	23	23	23	24	24	23	23	22	23	24	24
	UQ																								
	LQ																								
h'F2	MED									U 480	U 430	U 470	410	450	U 490	U 450	U 410								
	CNT								3	7	7	7	9	11	5	8	5	4	1						
	UQ																								
	LQ																								
h'F	MED	290	300	300	310	300	300	270	250	240	230	240	230	220	240	230	250	260	270	300	300	290	280	290	270
	CNT	22	19	20	18	17	20	19	17	18	17	20	22	21	21	21	22	22	22	22	23	22	23	24	23
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED								U 400	U 460	470	U 480	500	500	U 490	470	U 460								
	CNT								2 6	8	9	8	10	10	8	9	5	4	2						
foE	MED						U 210	250	300	310	330	330	340	330	330	310	300	280	240	U 200					
	CNT						8	13	16	15	15	17	17	18	18	19	19	16	15	5					
h'E	MED							120	110	105	105	105	105	105	105	105	105	110	U 120						
	CNT						2	13	9	14	15	15	15	17	19	15	13	10	6						
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. SEPTEMBER, 1958

TABLE 91

OURBES, BELGIUM (50.1N, 4.6E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	65	63	60	57	54	57	72	80	87	94	93	96	101	99	98	98	U 100	100	U 98	U 90	81	76	71	66
	CNT	25	25	25	25	25	25	25	23	24	21	20	23	20	21	21	21	20	22	24	25	26	25	22	26
	UQ	74	72	68	64	60	61	79	96	108	112	118	117	116	119	116	116	112	112	108	96	88	81	78	75
	LQ	57	56	52	50	48	48	64	70	76	79	82	84	89	89	86	89	90	92	90	82	71	69	63	60
h'F2	MED									330	320	360	340	365	360	330	325								
	CNT									4	4	5	5	4	8	5	6								
	UQ									340	370	435	375	380	365	480	360								
	LQ									325	280	305	340	345	340	315	300								
h'F	MED	275	U 270	265	260	255	245	230	215	220	210	205	210	200	210	215	215	225	230	230	230	230	230	260	270
	CNT	25	25	25	25	25	25	25	24	24	21	19	23	19	21	21	21	21	22	24	26	26	25	26	26
	UQ	300	295	290	295	270	260	240	220	215	220	220	220	215	210	220	220	225	235	245	230	245	260	285	295
	LQ	260	260	250	250	240	230	220	210	205	205	200	200	200	200	210	215	220	225	230	220	215	225	245	250
M(3000)F2	MED	275	270	270	270	275	295	320	315	310	300	290	290	285	285	285	290	U 295	300	U 300	U 300	290	280	270	265
	CNT	25	25	25	25	25	25	25	23	24	21	20	23	20	21	21	21	20	22	24	25	26	25	26	26
	UQ	280	280	280	275	280	300	325	320	320	315	300	300	295	290	290	300	300	305	310	305	300	290	280	280
	LQ	250	260	255	255	265	290	305	310	300	285	285	280	280	280	280	280	285	290	300	290	275	270	260	250
foF1	MED									520	550	590	600	595	U 600	600	580								
	CNT									4	4	4	5	4	8	5	6								
foE	MED						E 160	215	275	320	350	U 350	U 360	U 365	U 365	360	340	300	260	E 160					
	CNT						12	15	17	20	13	11	4	5	6	13	17	14	8	7					
h'E	MED						U 104	107	101	101	101	101	101	101	101	101	103	103	U 105	E 135					
	CNT						5	23	23	24	20	21	21	17	21	18	20	18	15	2					
foEs	MED	E 16	E 14	E 13	E 12	E 14	E 16	23	G	32	37	42	40	39	G	36	G	30	26	28	20	E 18	E 16	E 16	E 16
	CNT	24	24	24	24	24	24	23	22	22	21	20	21	19	21	21	21	20	22	24	26	26	25	26	25

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. SEPTEMBER, 1958

TABLE 92

FREIBURG, GERMANY (48.1N, 7.6E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
foF2	MED	70	68	65	63	60	64	76	89	99	105	112	112	113	109	110	110	109	108	104	94	83	79	76	73	
	CNT	29	29	30	29	30	29	30	30	30	29	29	30	29	30	30	30	29	30	30	30	29	29	28	29	
	UQ	78	76	71	68	64	69	90	108	120	128	128	124	127	124	122	119	120	117	110	102	91	85	82	80	
	LQ	63	62	59	58	54	58	72	77	87	96	96	99	100	100	96	97	100	98	100	86	77	73	67	66	
h'F2	MED							G	G		G															
	CNT						1	1	1	450	1	400	385	402	370	410										
	UQ									3	3	3	6	4	5	3										
	LQ																									
h'F	MED	295	298	292	290	280	260	245	235	230	230	228	230	230	225	235	240	245	250	250	248	245	270	290	290	
	CNT	26	28	30	29	30	29	29	30	27	25	24	23	24	27	28	28	24	27	26	26	29	28	27	27	
	UQ																									
	LQ																									
M(3000)F2	MED	250	250	248	245	255	280	295	295	285	275	270	265	260	260	262	265	275	275	278	272	270	255	252	250	
	CNT	29	29	30	29	30	30	30	30	30	29	29	30	29	30	30	30	29	30	30	30	29	29	28	29	
	UQ	260	260	262	260	260	290	305	305	290	285	278	270	265	270	265	270	278	280	280	275	275	265	258	260	
	LQ	228	235	235	235	250	260	285	285	270	270	260	260	250	255	255	255	265	270	270	260	252	250	242	235	
foF1	MED						U 280	340	420	480	485	610	640	650	U 540	590	580									
	CNT						1	1	1	3	1	3	5	5	1	2	1									
foE	MED						E 240	295		330	350	372	380	375	370	355	340	290	240	E						
	CNT						20	17	25	26	24	18	15	17	20	21	21	22	13	17						
h'E	MED						E 115	109		107	105	105	105	103	104	105	105	110	120	E						
	CNT						22	18	24	20	20	18	16	16	18	15	13	12	6	18						
foEs	MED	16	E	E	E	E		16	26	32	36	40	41	40	40	38	36	34	31	29	J 25	J 24	18	17	18	18
	CNT	30	30	30	30	30	30	30	30	30	29	29	30	28	30	30	29	28	30	30	30	29	28	28	30	

SWEEP 1.25 MC TO 20.0 MC IN 3 MINUTES. SEPTEMBER, 1958

TABLE 93*

CAPETOWN, UNION OF S. AFRICA (34.1S, 18.3E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 28	U 30	U 32	U 33	U 31	U 31	U 31	U 32	U 70	U 92	U 106	D 112	U 118	U 120	U 122	U 118	J 123	U 118	D 110	U 95	D 79	U 64	U 39	U 30
	CNT	5	5	5	5	5	5	5	5	4	5	5	5	4	5	4	4	3	2	4	3	4	3	4	4
	UQ																								
	LQ																								
h'F2	MED											U 230			U 275			U 265							
	CNT											1			1			1							
	UQ																								
	LQ																								
h'F	MED	E 345	E 320	F 325	E 295	E 280	F 290	E 275	E 255	230	U 235	U 235					U 250	U 240	U 240	U 245	U 230	U 230	U 225	E 235	E 270
	CNT	5	4	5	5	4	5	5	5	5	5	1					3	3	3	4	4	4	3	4	3
	UQ																								
	LQ																								
M(3000)F2	MED	U 260	U 260	U 275	U 280	U 285	U 280	U 285	U 295	U 315	U 315	U 300	U 290	U 280	U 275	U 270	U 265	U 270	200	285	U 300	U 290	U 320	U 315	U 290
	CNT	5	5	5	5	5	5	5	5	4	4	4	4	4	5	4	4	3	3	3	3	2	3	4	4
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED									E 210	U 290								U 290	U 200					
	CNT									4	4								2	3					
h'E	MED																								
	CNT																								
foEs	MED	E 19	E 18	E 18	E 18	E 17	E 19	E 16	E 17	G	G	G				U 68		G	G	E 20	E 20	E 18	E 19	E 19	E 20
	CNT	5	5	5	5	5	5	5	5	4	5	1				1		-	3	4	4	4	3	4	4

SWEEP 1.0 MC TO 17.0 MC IN 7 SECONDS. AUGUST, 1958

*NO READINGS WERE TAKEN BETWEEN 1415 ON 5 AUGUST AND 1100 ON 2 SEPTEMBER, 1958

TABLE 94

JULIUSRUH/RUGEN, GERMANY (54.6N, 13.4E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	73	67	63	58	59	60	66	70	74	76	75	77	76	75	76	74	75	75	76	76	77	78	77	76
	CNT	25	25	26	27	26	27	25	26	25	26	26	27	27	28	26	25	28	28	29	29	29	27	27	26
	UQ																								
	LQ																								
h'F2	MED						U 450	U 460	450	410	430	465	460	475	480	460	480	420	U 400						
	CNT					1	5	9	13	19	21	20	18	21	24	21	20	22	9	4	1				
	UQ																								
	LQ																								
h'F	MED	E 320	E 325	315	325	310	290	260	250	250	240	230	240	240	230	240	235	240	250	270	280	300	290	E 300	E 300
	CNT	27	26	27	28	27	26	25	24	20	26	25	22	22	27	26	25	26	26	26	26	28	27	26	28
	UQ																								
	LQ																								
M(3000)F2	MED	245	240	235	240	240	245	250	245	245	255	245	245	245	245	250	250	255	260	265	270	265	260	250	245
	CNT	24	24	24	25	26	26	25	25	23	25	27	28	23	27	25	26	28	28	28	28	29	27	25	25
	UQ																								
	LQ																								
foF1	MED						U 360	U 470	490	530	540	570	580	570	580	570	560	540	530						
	CNT					1	6	9	15	16	15	21	20	20	25	21	20	20	6		1				
foE	MED	E	E	E	E	165	240	290	325	360	370	385	390	400	400	395	385	365	340	300	260	180	U 160		
	CNT	6	12	14	13	17	12	24	24	22	23	23	12	19	11	19	17	17	22	24	22	16	7	3	1
h'E	MED																								
	CNT																								
foEs	MED	28	17	11	14	20	25	35	39	44	42	45	45	43	43	41	41	40	40	37	31	29	32	35	U 30
	CNT	14	19	26	24	22	22	24	25	22	25	21	19	21	24	22	22	23	26	27	24	24	18	13	9

SWEEP 0.5 MC TO 20.0 MC IN 25 SECONDS. JULY, 1958

TABLE 95

FROBISHER BAY, CANADA (63.8N, 68.6W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	53	50	52	52	48	46	50	45	48	50	50	62	66	64	64	65	64	62	63	60	56	60	56	54
	CNT	17	19	18	18	16	18	14	14	15	13	16	14	14	13	15	15	16	17	17	18	19	20	19	18
	UQ																								
	LQ																								
h'F2	MED				U 530			550	U 650	U 820	U 550	U 610	510	550	530	500	590	500	490	470	480	U 500	U 440		
	CNT			1	5	3	3	10	5	5	5	6	9	11	11	12	13	15	12	15	9	7	6	4	2
	UQ																								
	LQ																								
h'F	MED	310	300	300	270	250	260	240	240	230	230	220	210	210	210	210	210	220	220	230	230	270	290	280	280
	CNT	15	15	14	17	17	15	14	10	13	11	15	12	12	13	15	16	15	15	14	13	17	17	17	18
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED				U 320	U 400	U 420	420	450	480	500	500	510	520	520	510	510	500	500	450	420	U 470	U 440		
	CNT			2	3	7	8	14	13	14	15	16	14	15	14	15	16	16	16	16	13	9	7	3	2
foE	MED	180		200	220	270	300	300	330	360	380	380	390	380	380	370	350	330	300	300	290	240	200	220	U 170
	CNT	9	4	9	11	10	13	13	11	13	13	12	13	14	13	11	13	12	12	13	15	12	9	9	8
h'E	MED				U 120	U 110	105	105	110	105	105	100	100	100	100	U 100	100	100	100	105	110	105	U 105		
	CNT	1		3	6	8	9	10	10	12	13	12	11	12	9	8	12	10	10	12	11	9	5	4	1
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. JUNE, 1958

TABLE 96

OOURBES, BELGIUM (50.1N, 4.6E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	70	68	66	63	65	69	72	75	75	76	77	77	77	76	75	76	75	76	80	U 79	79	77	77	75
	CNT	30	28	28	28	28	27	25	25	24	22	27	29	29	28	28	28	27	28	26	25	27	28	30	30
	UQ	76	72	69	69	71	79	84	85	88	88	90	87	84	83	82	80	81	82	85	86	83	84	81	79
	LQ	66	62	58	52	57	59	63	66	68	69	68	70	70	70	73	71	71	72	75	72	70	72	70	71
h'F2	MED				560	540	420	400	400	405	425	420	430	435	430	420	400	400	395	375					
	CNT				1	4	7	14	12	15	17	23	28	27	25	23	24	20	9	2					
	UQ					665	630	480	480	480	480	480	460	485	490	450	450	410	420						
	LQ					480	385	360	335	375	380	390	390	400	400	400	380	365	370						
h'F	MED	310	310	310	320	290	250	240	230	220	210	210	210	210	220	220	230	235	250	260	275	270	280	290	300
	CNT	30	27	27	25	26	24	24	22	16	14	17	19	24	20	18	16	19	17	14	24	20	28	30	30
	UQ	330	330	325	350	315	260	250	250	230	230	220	225	220	230	225	240	245	260	265	290	280	300	300	320
	LQ	290	285	285	300	275	250	230	225	210	205	200	210	205	210	210	220	230	235	245	265	260	270	275	280
M(3000)F2	MED	250	250	250	255	260	270	265	265	270	260	255	260	260	255	260	265	265	270	280	U 280	270	U 265	255	255
	CNT	30	28	28	28	28	27	25	25	24	22	26	29	29	28	28	28	27	28	26	25	27	28	30	30
	UQ	255	255	260	265	270	280	275	280	275	270	270	270	265	260	270	270	270	275	285	285	280	270	265	260
	LQ	240	240	240	240	250	260	255	260	260	250	250	250	255	245	255	260	260	260	270	270	265	255	250	243
foF1	MED				240	320	U 400	480	500	U 520	550	550	570	U 570	570	550	550	530	510	430					
	CNT				1	4	7	15	14	13	15	21	23	23	25	21	20	19	9	2					
foE	MED				U 130	U 180	260	300	330	355	370	U 375	U 380	U 385	U 385	U 380	375	350	315	270	210	E 170			
	CNT				8	10	13	19	15	18	11	11	8	9	9	10	15	19	19	12	4	4			
h'E	MED				115	103	109	105	103	103	105	103	103	105	105	105	105	105	105	109	115				
	CNT				6	7	28	29	27	25	21	23	26	24	24	26	29	27	26	26	16				
foEs	MED	E 16	E 14	E 12	E 14	21	30	36	40	42	43	44	45	43	43	43	45	43	U 43	40	J 35	J 35	E 16	E 17	E 16
	CNT	30	28	28	28	28	28	26	28	26	21	27	27	28	27	28	29	28	28	27	27	27	28	29	30

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. JUNE, 1958

TABLE 97

EUREKA, CANADA (80.0N, 85.9W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	62	62	62	62	66	62	62	60	62	60	62	61	64	65	66	60	64	61	60	62	68	64	61	60
	CNT	30	31	31	31	31	31	30	31	30	28	30	31	27	27	28	28	25	26	29	30	29	29	30	31
	UQ																								
	LQ																								
h'F2	MED	U 520	U 460	450	440	510	420	420	480	450	460	500	500	480	460	460	480	470	500	480	480	410	440	410	500
	CNT	8	8	11	12	10	20	20	22	21	27	28	24	27	23	23	26	23	19	20	20	20	12	12	11
	UQ																								
	LQ																								
h'F	MED	270	270	260	260	250	240	240	230	230	230	230	230	220	230	230	220	230	240	250	240	250	250	260	260
	CNT	31	31	29	30	31	31	31	30	27	27	21	23	21	24	21	22	26	28	29	31	29	30	31	30
	UQ																								
	LQ																								
M(3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED	U 380	390	390	390	390	400	420	450	450	480	480	490	490	470	480	470	450	440	440	420	430	410	400	400
	CNT	8	9	12	14	10	20	21	24	26	30	28	28	29	27	27	27	27	23	22	22	19	14	14	13
foE	MED	240	240	240	240	260	270	280	290	300	310	310	320	330	320	320	320	310	300	300	290	280	270	250	240
	CNT	30	30	29	28	29	31	31	30	29	26	21	22	21	22	23	25	26	28	30	29	30	30	31	30
h'E	MED	110	110	110	105	105	105	105	105	100	100	100	100	105	100	100	100	100	105	105	105	105	105	110	105
	CNT	29	28	26	23	27	29	29	24	19	14	13	13	11	14	15	18	17	20	24	25	27	25	29	30
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. MAY, 1958

TABLE 98

DOURBES, BELGIUM (50.1N, 4.6E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
foF2	MED	72	69	65	62	63	68	71	72	78	78	82	88	85	88	85	84	84	84	85	85	80	80	76	75	
	CNT	28	28	28	28	27	27	27	27	26	27	28	28	28	27	27	28	28	27	29	28	29	29	29	29	
	UQ	77	75	70	66	69	74	79	79	85	87	90	93	94	95	93	90	90	91	91	90	88	83	81	80	
	LQ	64	62	56	56	58	62	65	67	70	72	78	78	80	78	79	80	77	75	73	72	70	70	68	65	
h'F2	MED						480	400	475	400	450	430	430	420	430	405	420	390	400	355						
	CNT						1	3	7	13	14	21	20	23	24	21	16	14	1	1						
	UQ								485	455	490	480	465	480	485	435	470	440								
	LQ								430	365	410	400	400	400	395	390	380	360								
h'F	MED	325	320	310	310	295	260	240	230	225	220	220	220	225	230	230	230	240	250	260	270	270	280	300	315	
	CNT	25	28	24	24	25	25	25	24	24	22	23	23	22	24	25	23	24	23	25	26	29	27	27	28	
	UQ	340	330	325	330	310	260	245	240	230	230	230	230	230	230	230	230	240	260	260	280	280	310	310	340	
	LQ	300	300	300	295	285	250	230	225	215	215	210	210	210	220	220	220	230	240	255	260	260	270	285	300	
M(3000)F2	MED	240	245	245	250	260	265	265	265	260	260	255	255	250	255	260	265	265	270	280	275	270	260	250	245	
	CNT	28	28	28	28	27	27	27	27	26	27	28	27	27	27	27	28	28	27	29	28	29	29	29	29	
	UQ	250	250	255	255	260	275	280	275	270	265	265	260	265	265	270	270	270	280	280	280	275	265	260	250	
	LQ	235	240	235	240	250	260	260	250	250	245	250	245	245	245	255	250	255	265	275	270	260	250	245	235	
foF1	MED						400	510	520	520	560	590	590	600	590	600	550	540	520	450						
	CNT						1	3	7	12	12	15	17	23	23	20	16	14	1	1						
foE	MED					E 160	U 230	290	325	350	370	U 380	U 385	U 395	385	375	365	335	300	250	U 175	E 160				
	CNT					17	25	25	26	24	25	18	13	9	14	16	23	24	25	18	17	10				
h'E	MED					E 123	109	105	101	101	103	101	101	103	103	103	105	105	107	109	111					
	CNT					2	15	27	24	26	28	25	27	26	26	27	25	24	28	23	1					
foEs	MED	E 16	E		12	12	18	26	32	36	38	43	42	42	42	41	40	38	38	33	28	22	E 16	E 16	E 16	E 16
	CNT	27	20	21	21	26	26	27	27	27	29	28	27	26	28	27	28	28	27	29	27	27	28	26	26	

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. MAY, 1958

TABLE 99

DOURBES, BELGIUM (50.1N, 4.6E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	59	U 56	54	50	48	45	56	71	89	96	106	118	124	123	120	116	114	U 113	U 108	94	80	U 70	68	64
	CNT	25	28	28	28	28	28	28	26	27	27	27	28	30	29	30	27	30	24	25	24	26	25	25	25
	UQ	66	64	62	58	54	54	62	80	97	114	125	130	133	130	127	124	124	119	114	99	87	78	76	72
	LQ	55	50	48	45	40	36	50	62	73	83	93	100	106	108	107	104	101	108	100	88	77	66	61	60
h'F2	MED										380	325	355	390	290		235								
	CNT										1	3	4	2	1		1								
	UQ												410												
	LQ												330												
h'F	MED	325	310	330	320	300	290	260	240	235	230	220	220	225	230	230	235	240	240	240	230	240	250	285	310
	CNT	23	26	26	25	23	24	27	26	27	27	27	25	29	28	30	26	30	29	28	27	26	22	26	26
	UQ	340	350	350	345	325	310	280	255	245	235	230	230	230	235	235	240	240	250	240	240	250	270	310	330
	LQ	295	295	290	290	275	260	250	235	230	220	215	220	220	230	230	230	235	230	230	225	230	235	265	280
M(3000)F2	MED	245	U 240	240	240	250	260	290	300	295	285	285	280	276	275	280	275	285	U 280	U 285	U 285	275	U 255	250	240
	CNT	24	27	28	28	28	28	28	26	27	27	27	28	30	29	30	27	30	24	25	24	25	23	24	24
	UQ	255	255	250	250	260	270	295	305	305	305	290	290	285	280	280	285	290	295	295	290	290	275	260	260
	LQ	230	230	225	230	240	250	270	290	285	275	270	270	270	270	270	270	275	275	280	275	260	250	240	235
foF1	MED										630	U 560	610	610	530										
	CNT										1	2	4	1	1										
foE	MED						E 160	U 190	260	310	330	350	360	365	360	345	330	290	230	E 160					
	CNT						15	26	27	26	25	23	22	26	27	29	26	30	28	23					
h'E	MED							117	111	109	109	109	109	111	111	111	111	115	115						
	CNT							8	26	27	26	24	24	29	27	28	24	28	20						
foEs	MED	E 16	E	E	E	E 16	E 16	G	G	G	G	G	G	G	G	G	G	G	G	E	E 16	E 16	E	E	E 16
	CNT	26	28	28	28	28	28	23	27	25	26	26	27	29	27	30	23	26	27	28	27	27	26	26	25

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. MARCH, 1958

TABLE 100

GODLEY HEAD (CHRISTCHURCH), N.Z. (43.6S, 172.8E) TIME 172.5E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	29	30	33	32	28	25	24	37	46	48	51	52	55	52	56	55	52	48	39	36	33	31	30	32
	CNT	6	5	5	5	6	6	6	6	6	6	6	8	9	8	8	8	8	8	7	7	7	7	7	7
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
M(3000)F2	MED	300	300	300	310	320	340	310	350	350	340	330	330	320	340	320	330	340	340	310	300	300	300	290	300
	CNT	5	5	5	5	6	6	6	6	6	6	6	6	7	8	7	7	6	7	7	7	7	7	7	7
	UQ																								
	LQ																								
foF1	MED									320	370	420	410	410	400	390	380	330	230						
	CNT									6	5	6	6	7	8	7	6	7	5						
foE	MED									200	250	280	290	290	290	270		210	150						
	CNT									6	5	6	6	7	8	7		6	7						
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP USCOMM-NBS-BL AUGUST, 1955

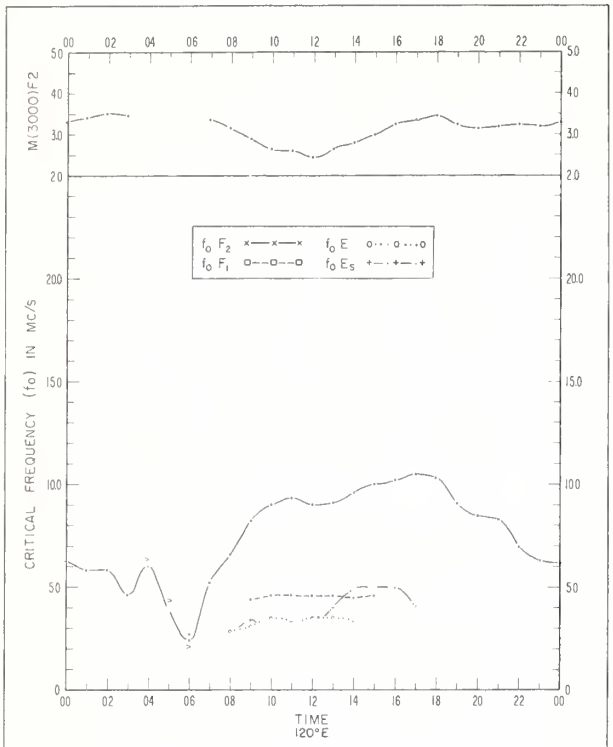


Fig 1. BAGUIO, LUZON
16.4°N, 120.6°E
FEBRUARY 1963

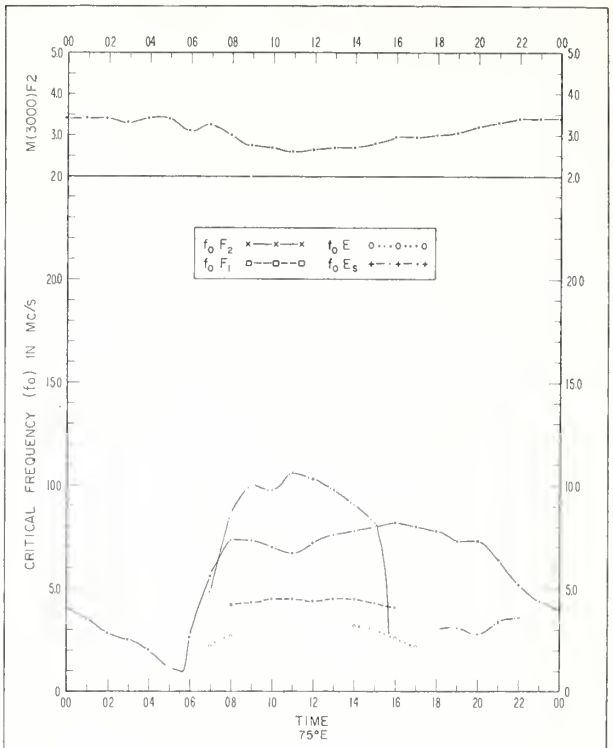


Fig 2. KODAIKANAL, INDIA
10.2°N, 77.5°E
JANUARY 1963

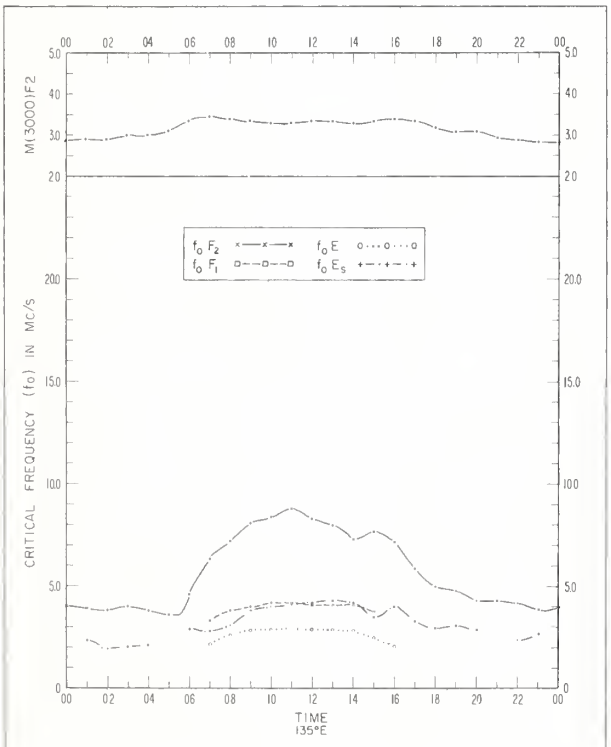


Fig 3. WAKKANAI, JAPAN
45.4°N, 141.7°E
OCTOBER 1962

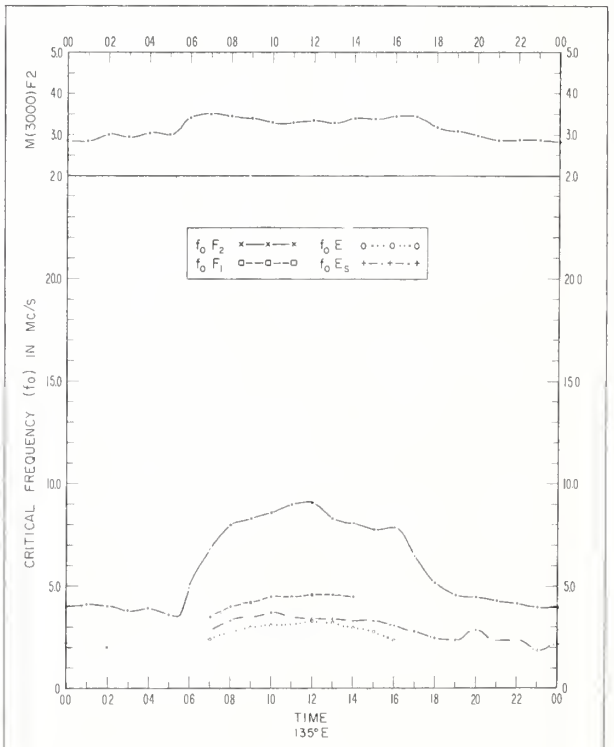


Fig 4. AKITA, JAPAN
39.7°N, 140.1°E
OCTOBER 1962

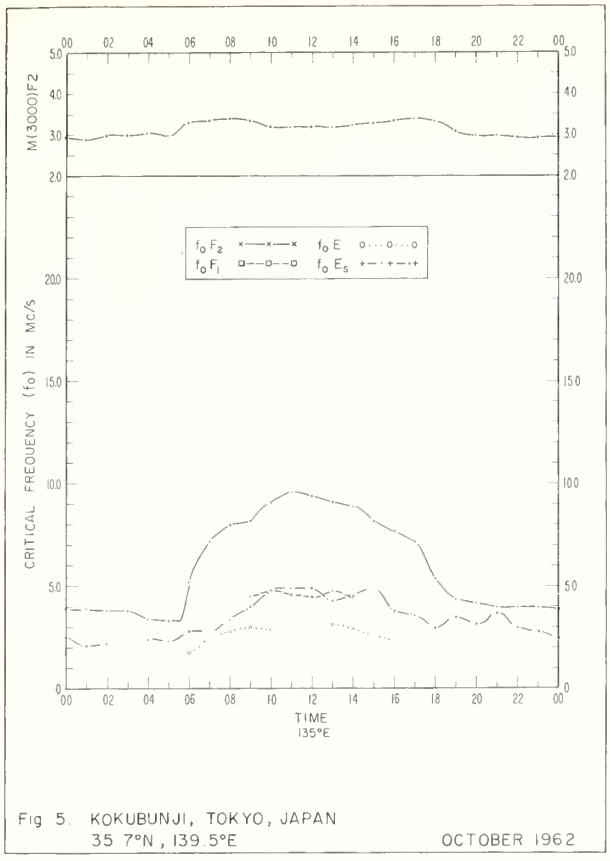


Fig. 5. KOKUBUNJI, TOKYO, JAPAN
35.7°N, 139.5°E
OCTOBER 1962

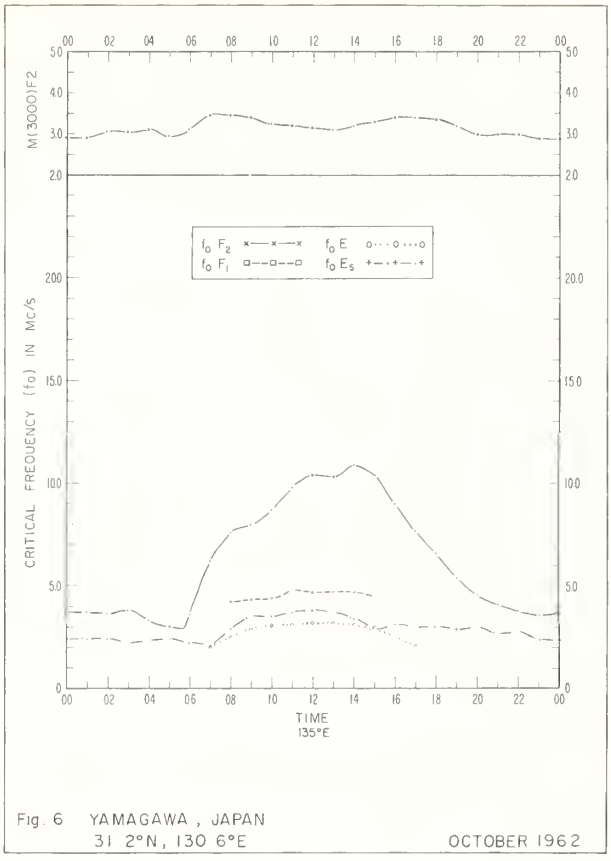


Fig. 6 YAMAGAWA, JAPAN
31.2°N, 130.6°E
OCTOBER 1962

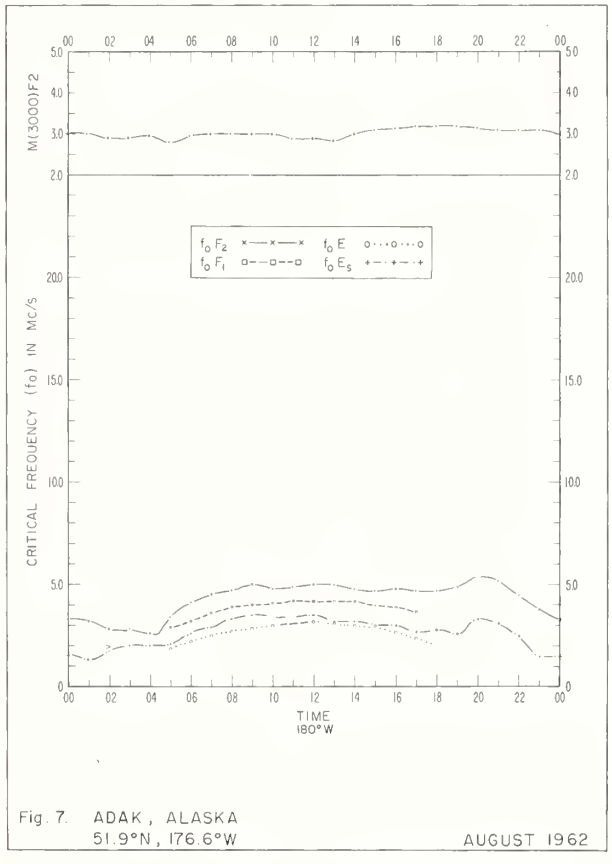


Fig. 7. ADAK, ALASKA
51.9°N, 176.6°W
AUGUST 1962

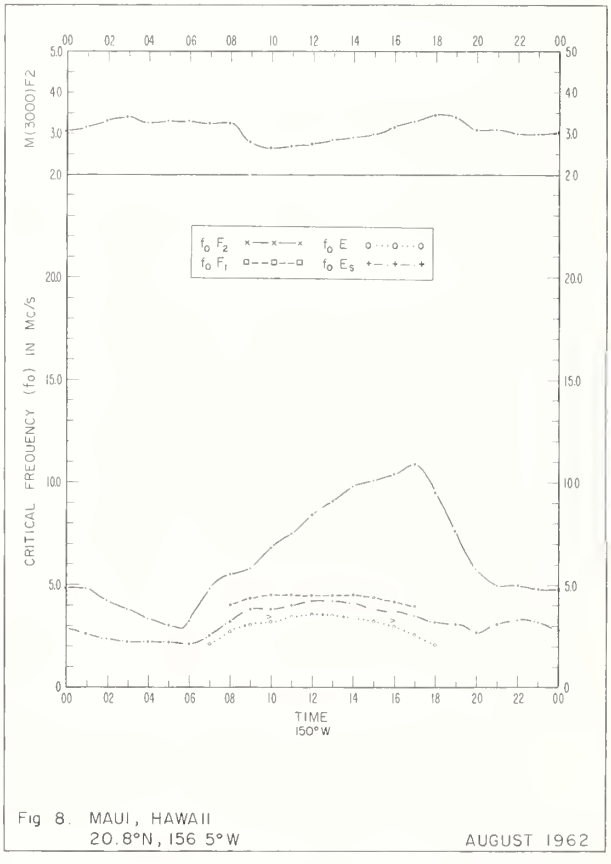


Fig 8. MAUI, HAWAII
20.8°N, 156.5°W
AUGUST 1962

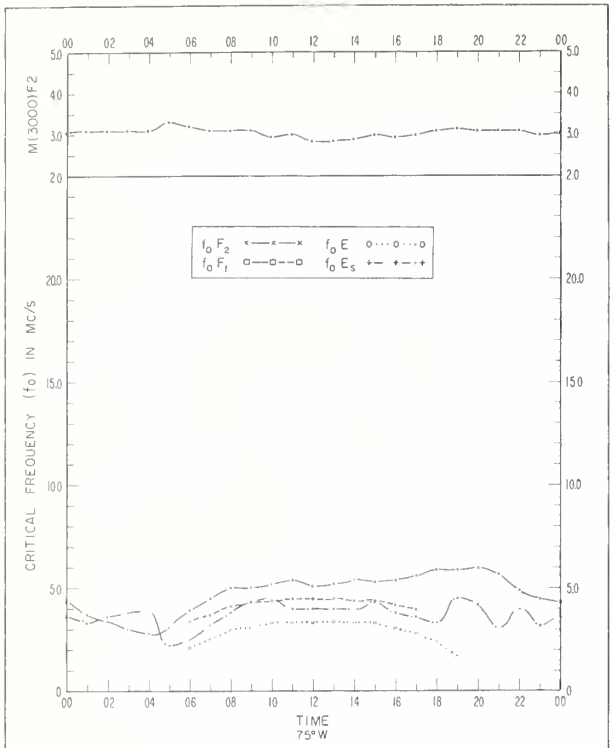


Fig 9. WASHINGTON, D C.
38.7°N, 77.1°W
JULY 1962

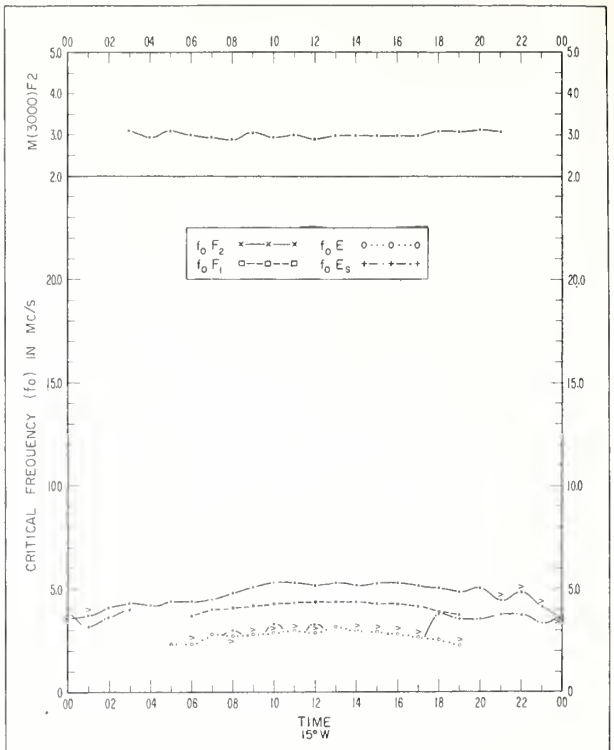


Fig 10. REYKJAVIK, ICELAND
64.1°N, 21.8°W
JUNE 1962

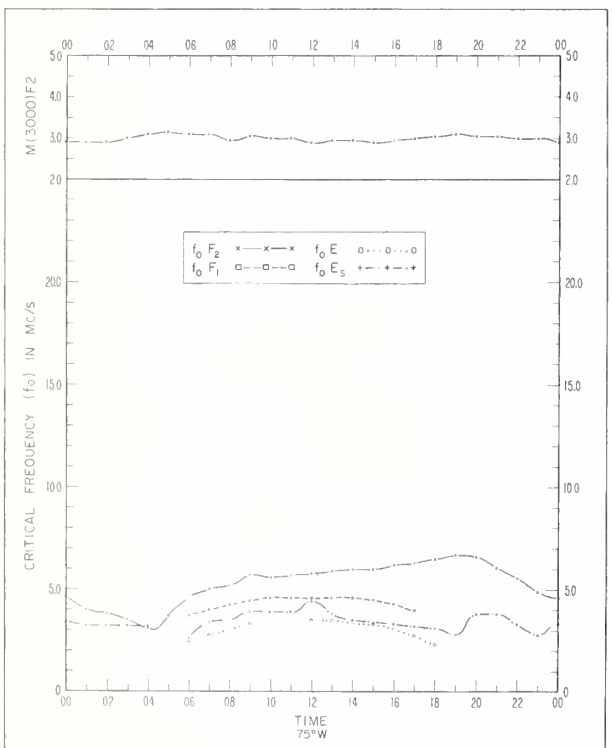


Fig 11. FT MONMOUTH, NEW JERSEY
40.4°N, 74.1°W
JUNE 1962

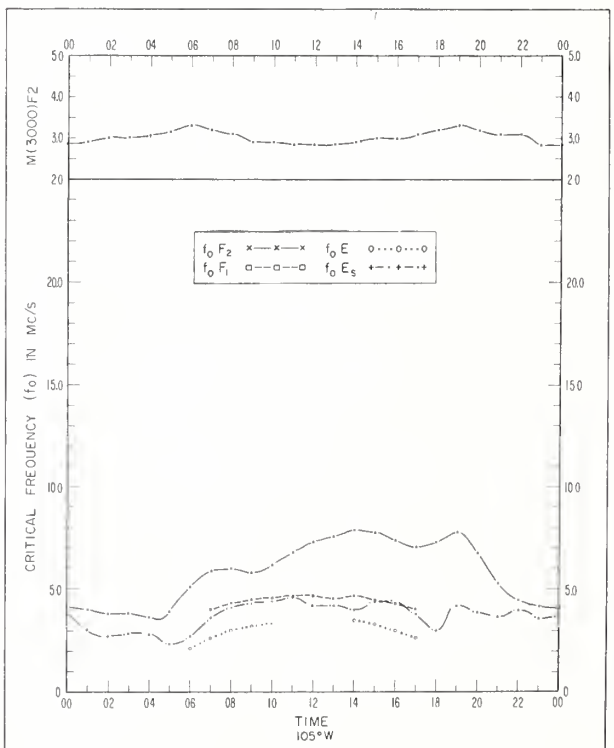


Fig. 12. WHITE SANDS, NEW MEXICO
32.3°N, 106.5° W
MAY 1962

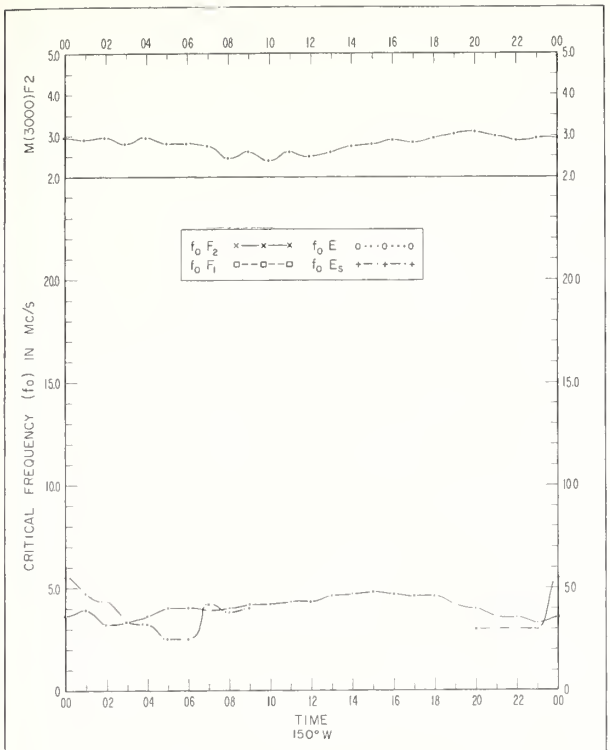


Fig. 13. BARROW, ALASKA
71.3°N, 156.8°W
APRIL 1962

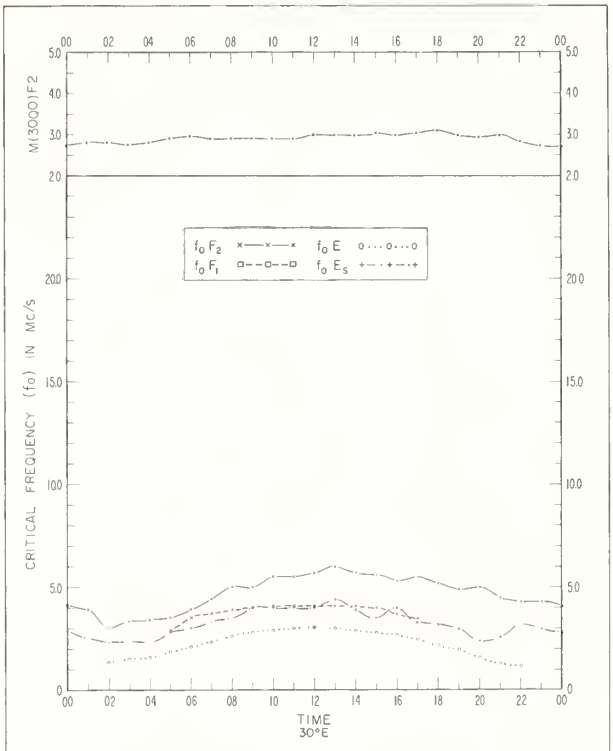


Fig. 14. SODANKYLA, FINLAND
67.4°N, 26.6°E
APRIL 1962

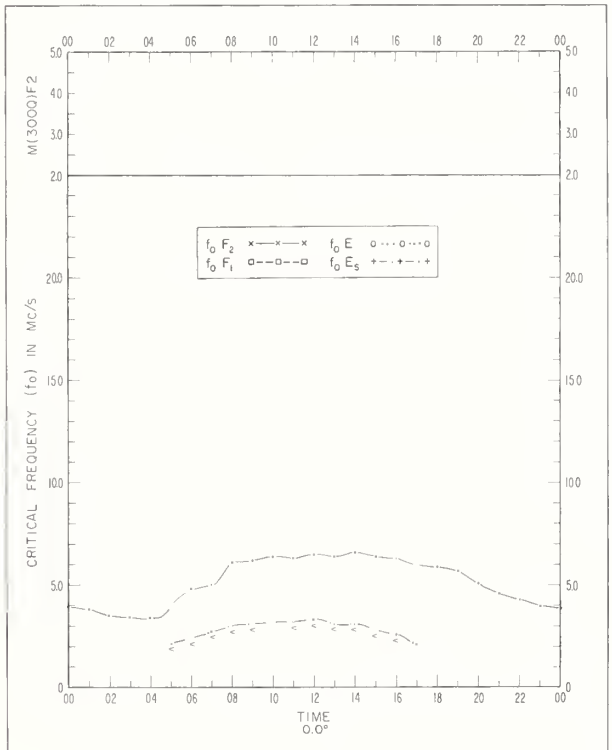


Fig. 15. PRUHONICE, CZECHOSLOVAKIA
50.0°N, 14.6°E
APRIL 1962

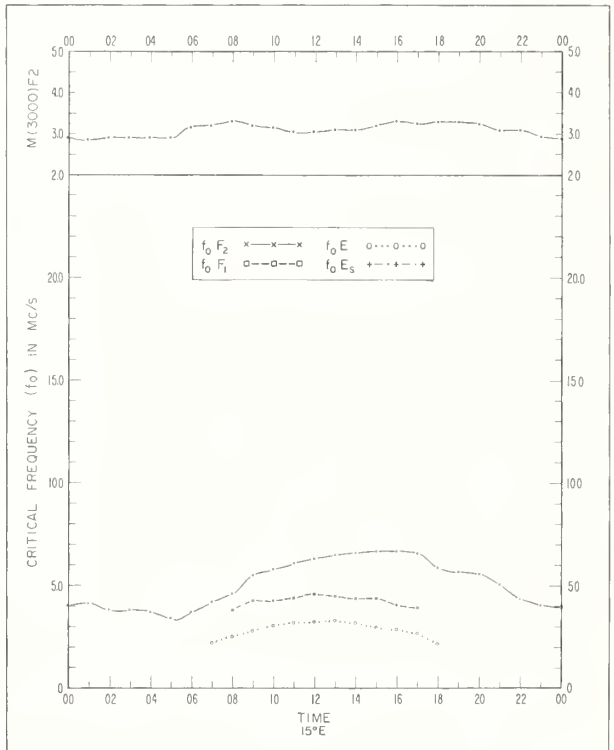


Fig. 16. SOTTENS, SWITZERLAND
46.6°N, 6.7°E
APRIL 1962

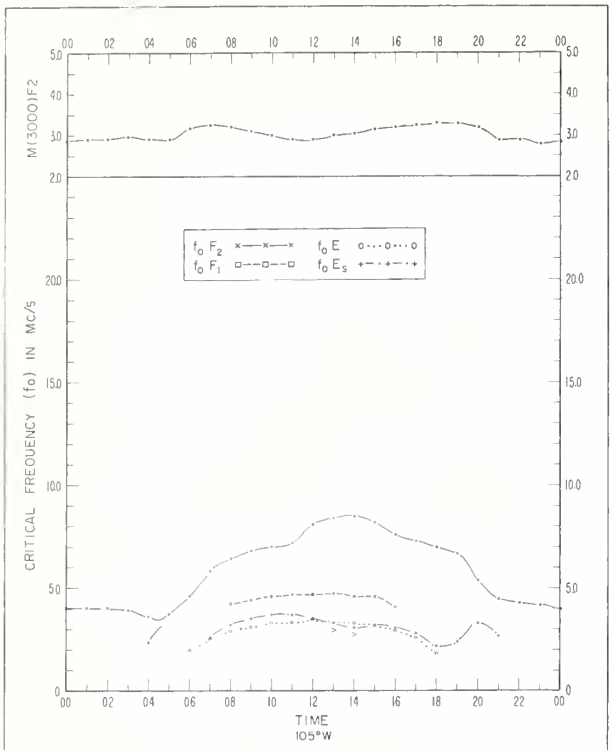


Fig 17. WHITE SANDS, NEW MEXICO
32.3°N, 106.5°W
APRIL 1962

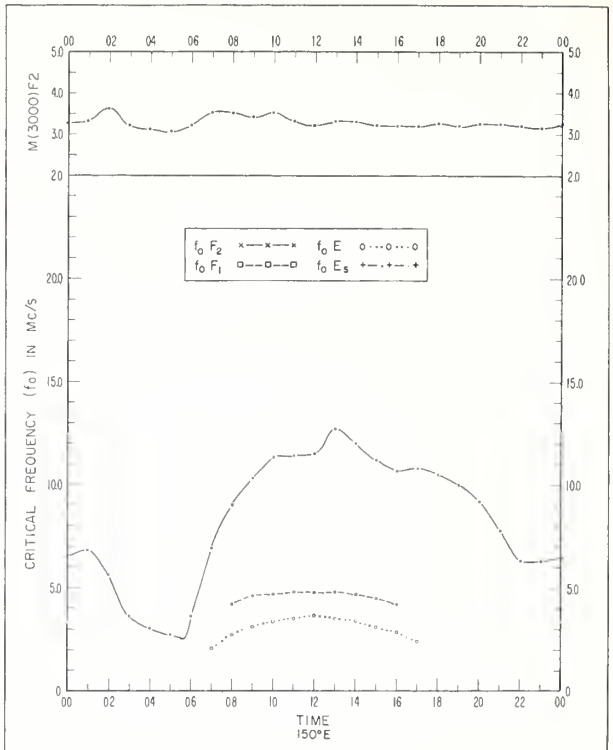


Fig. 18. PORT MORESBY, PAPUA
9 4°S, 147.1°E
APRIL 1962

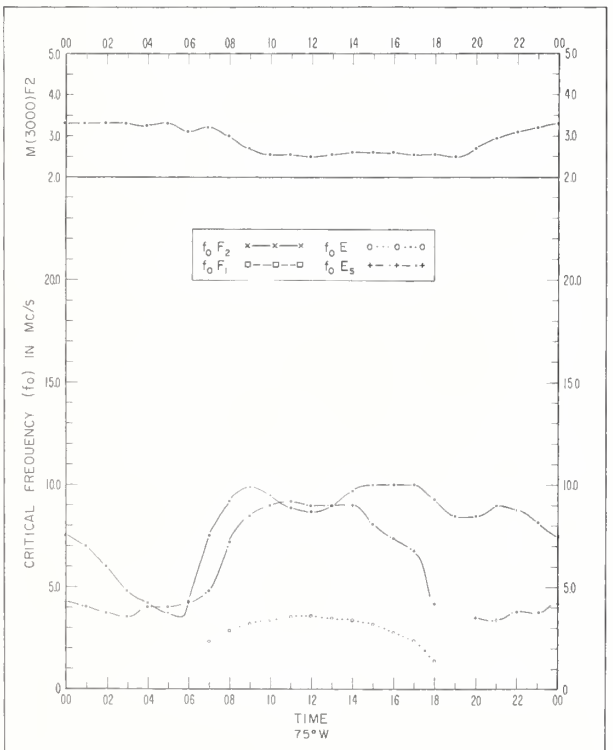


Fig 19. HUANCAYO, PERU
12 0°S, 75 3°W
APRIL 1962

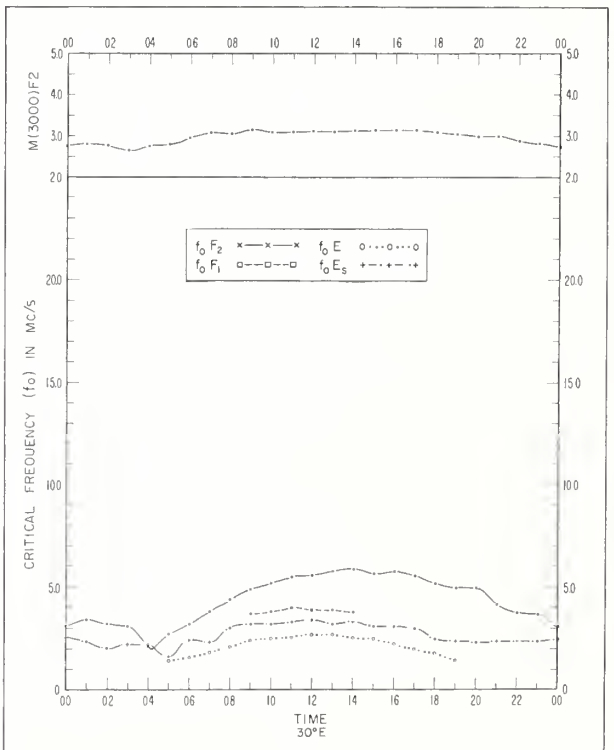


Fig 20. SODANKYLA, FINLAND
67. 4°N, 26.6°E
MARCH 1962

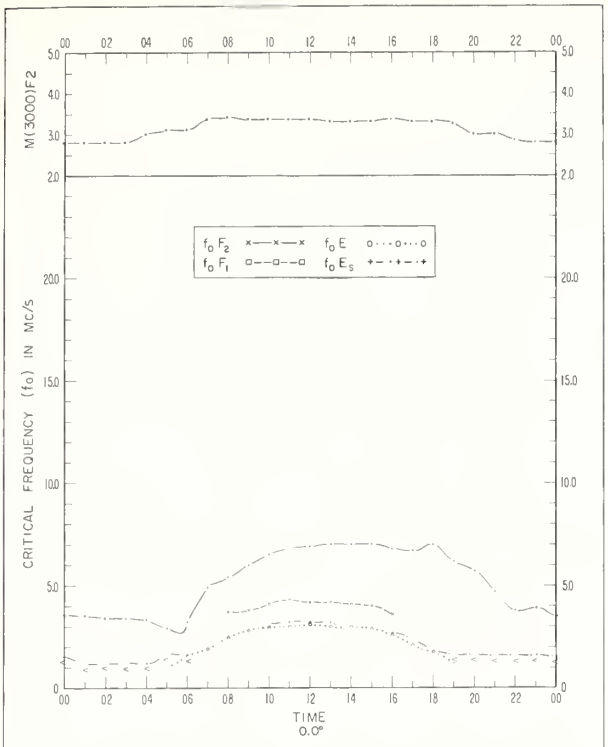


Fig. 21. SLOUGH, ENGLAND
51.5°N, 0.6°W
MARCH 1962

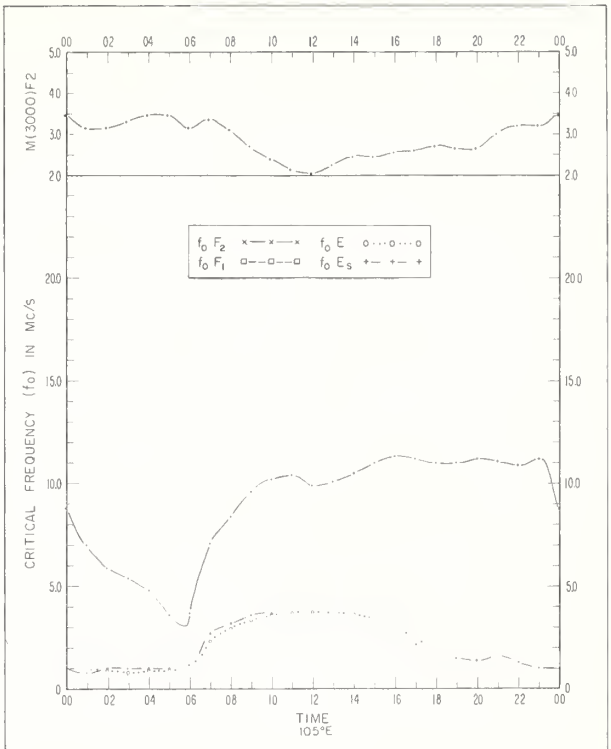


Fig 22. SINGAPORE, BRITISH MALAYA
1.3°N, 103.8°E
MARCH 1962

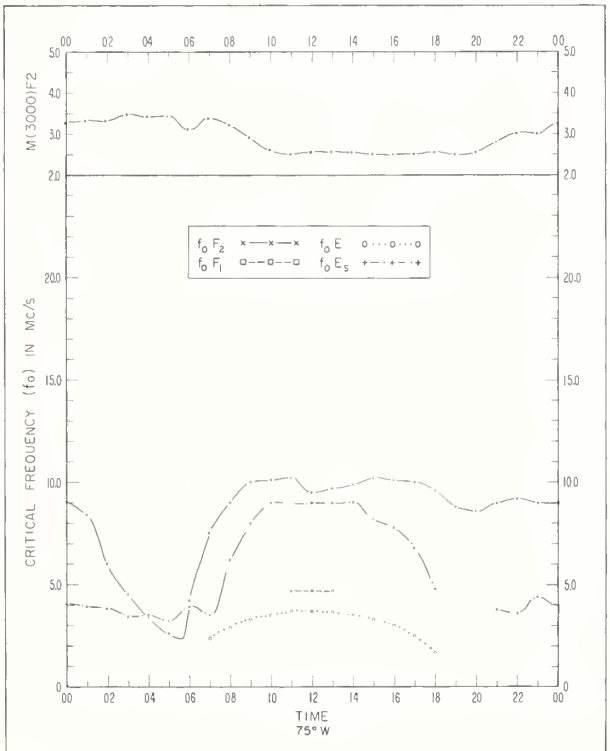


Fig. 23. HUANCAYO, PERU
12.0°S, 75.3°W
MARCH 1962

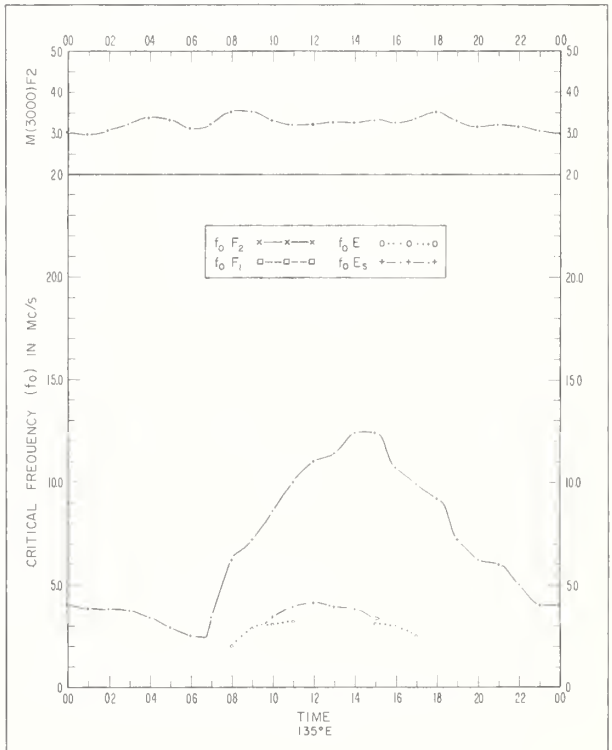


Fig 24. OKINAWA I
26.3°N, 127.8°E
FEBRUARY 1962

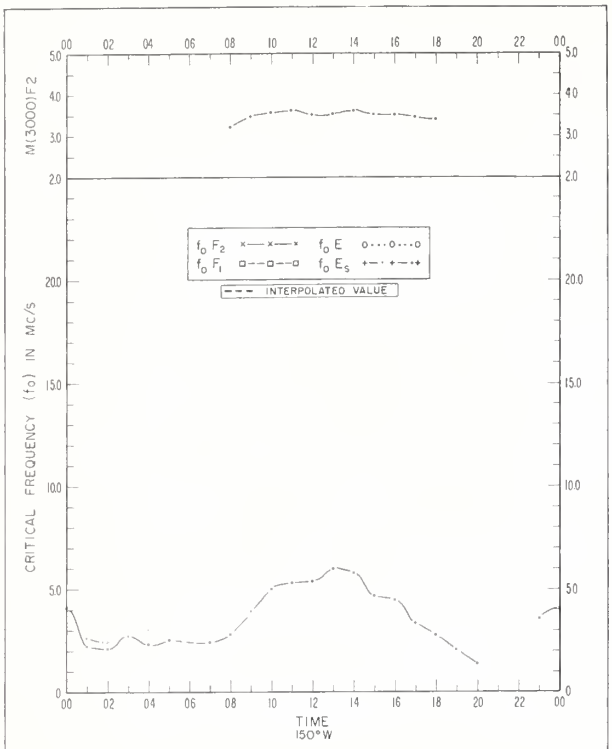


Fig 25. ANCHORAGE, ALASKA
61.2°N, 149.9°W
JANUARY 1962

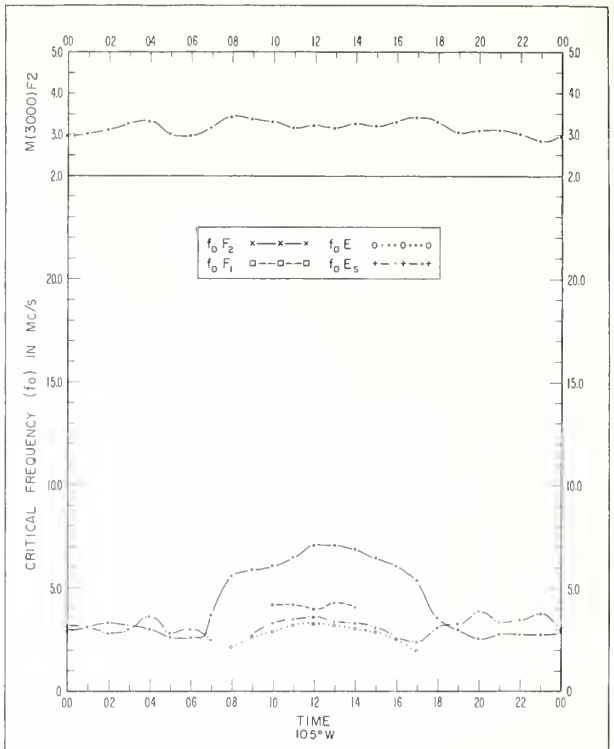


Fig 26. WHITE SANDS, NEW MEXICO
32.3°N, 106.5°W
JANUARY 1962

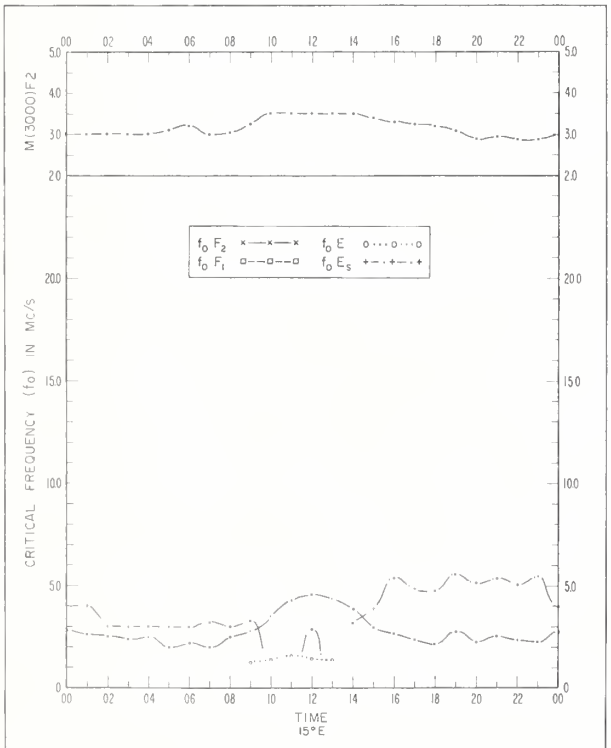


Fig 27. KIRUNA, SWEDEN
67.8°N, 20.4°E
DECEMBER 1961

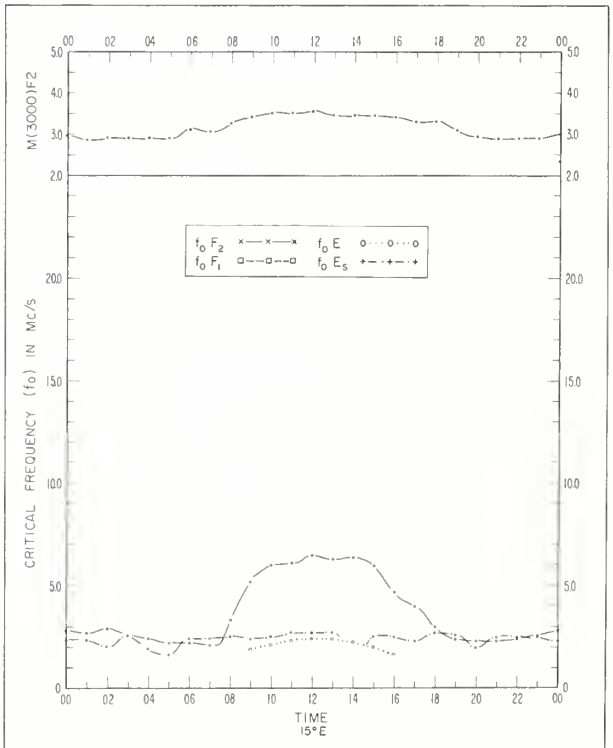


Fig. 28. JULIUSRUH/RUGEN, GERMANY
54.6°N, 13.4°E
DECEMBER 1961

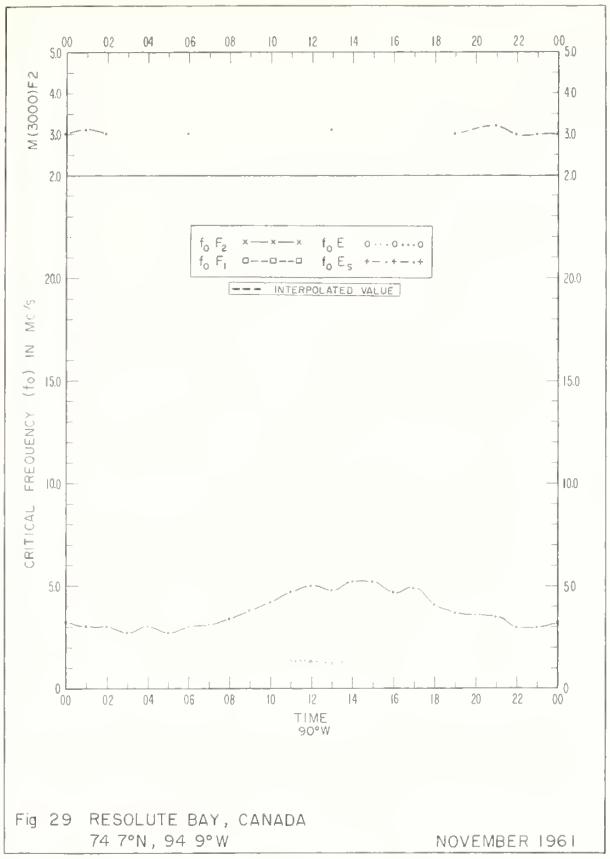


Fig 29 RESOLUTE BAY, CANADA
74 7°N, 94 9°W NOVEMBER 1961

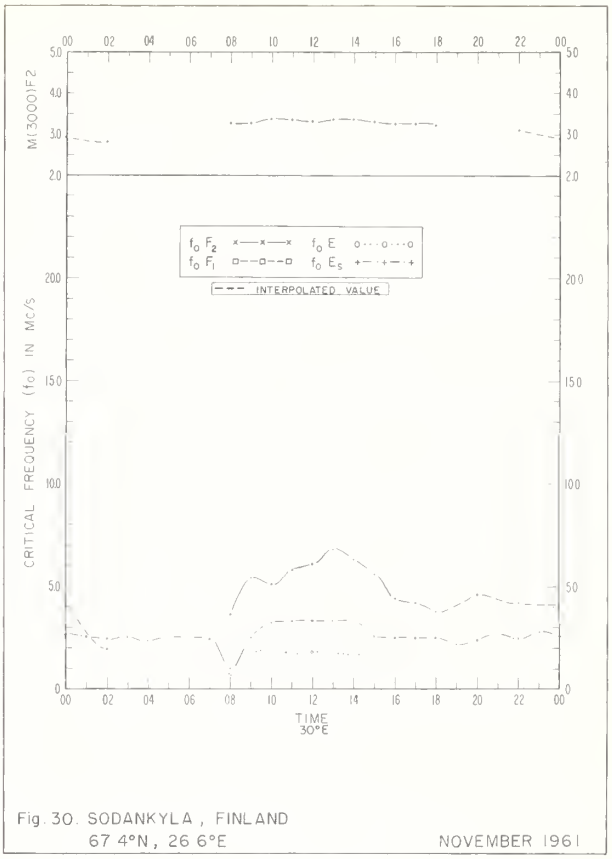


Fig. 30. SODANKYLA, FINLAND
67 4°N, 26 6°E NOVEMBER 1961

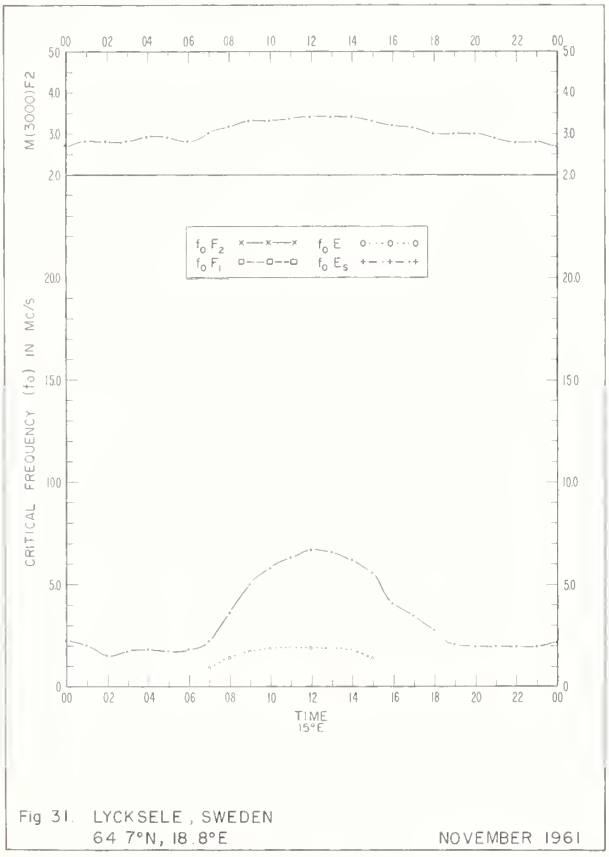


Fig 31. LYCKSELE, SWEDEN
64 7°N, 18 8°E NOVEMBER 1961

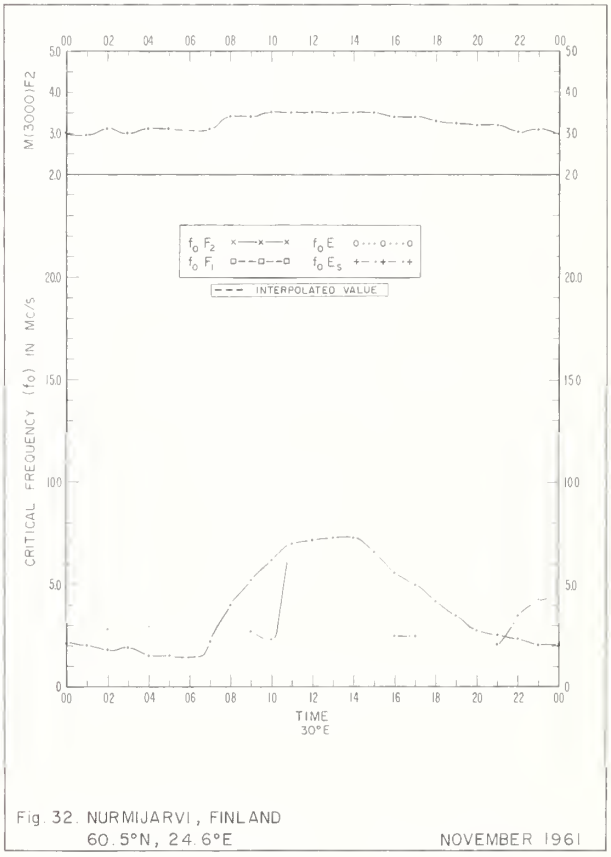


Fig. 32. NURMIJARVI, FINLAND
60. 5°N, 24. 6°E NOVEMBER 1961

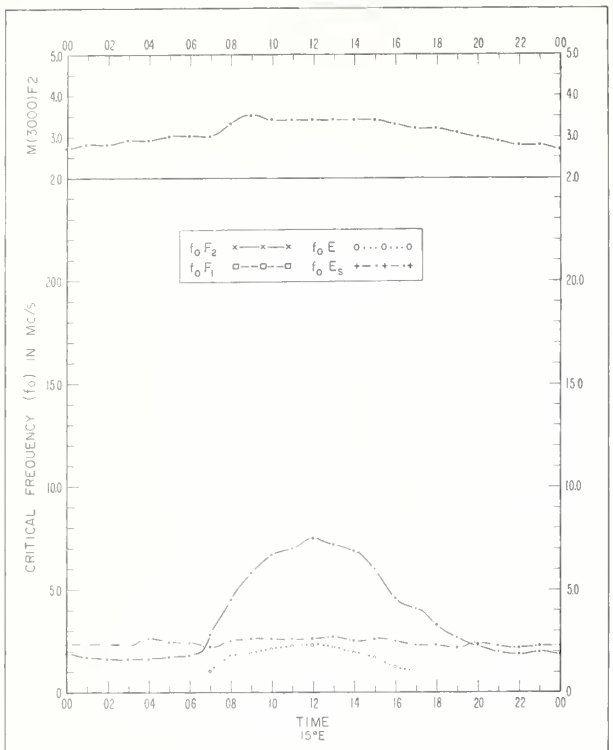


Fig 33 UPPSALA, SWEDEN
59.8°N, 17.6°E
NOVEMBER 1961

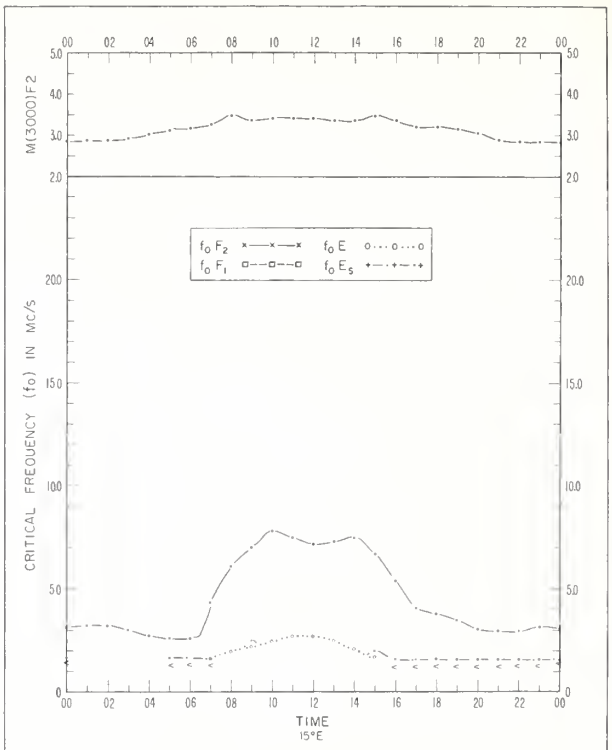


Fig 34 WARSAW (MIEDZESZYN), POLAND
52.2°N, 21.2°E
NOVEMBER 1961

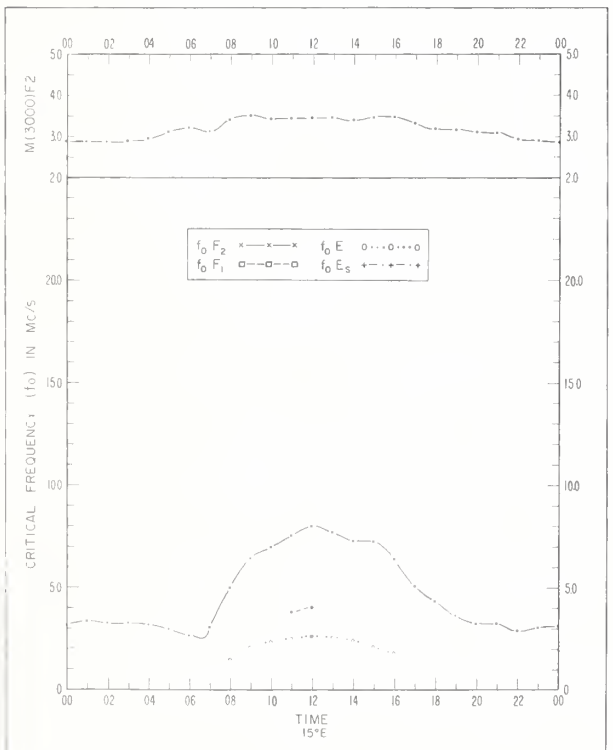


Fig 35. LINDAU/HARZ, GERMANY
51.6°N, 10.1°E
NOVEMBER 1961

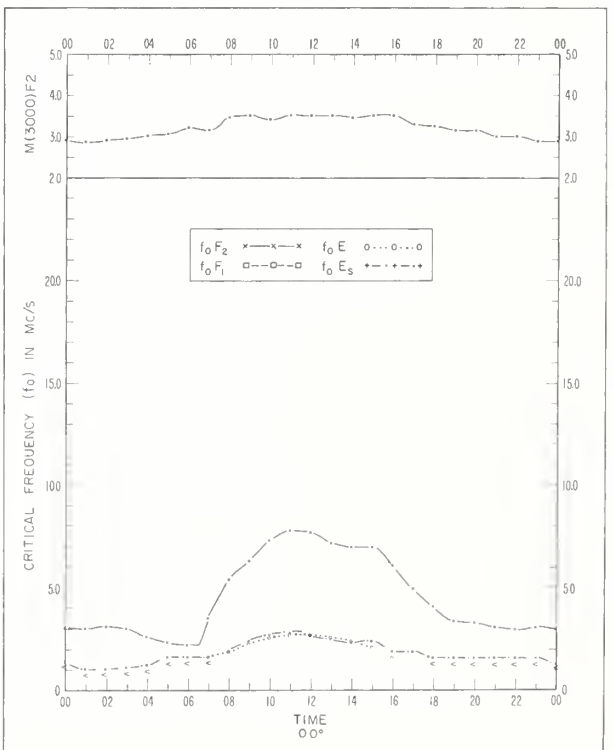


Fig 36. SLOUGH, ENGLAND
51.5°N, 0.6°W
NOVEMBER 1961

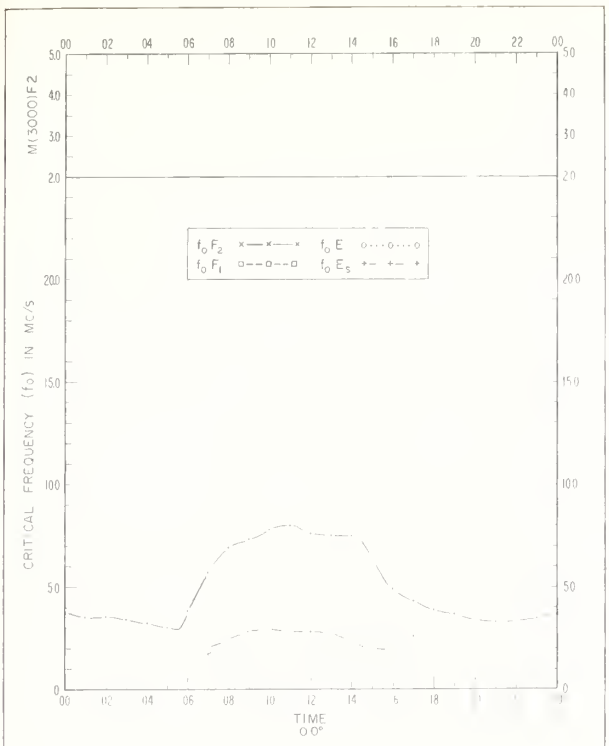


Fig 37 PRUHONICE, CZECHOSLOVAKIA
50.0°N, 14.6°E NOVEMBER 1961

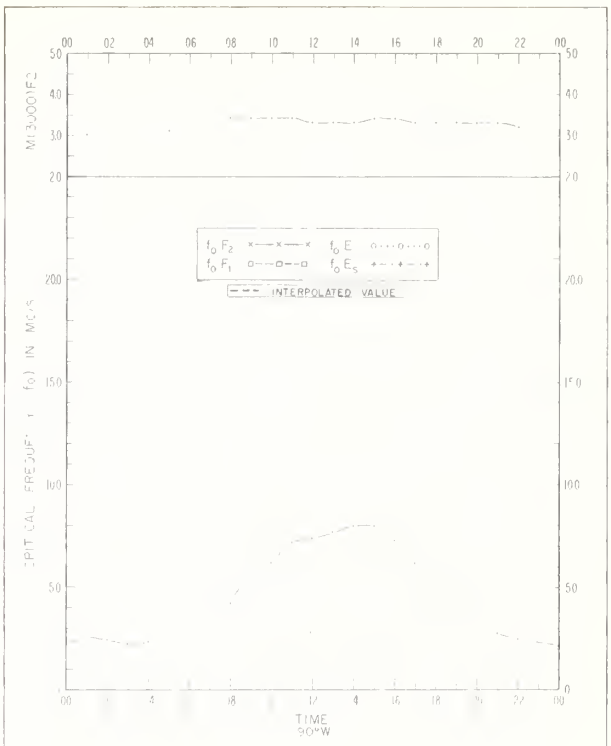


Fig 38 WINNIPEG, CANADA
49.9°N, 97.4°W NOVEMBER 1961

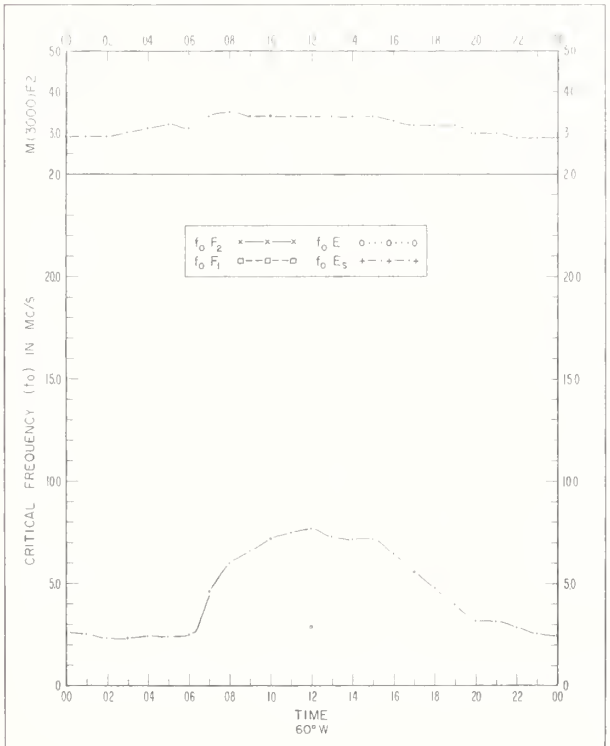


Fig 39. ST. JOHN'S, NEWFOUNDLAND
47.6°N, 52.7°W NOVEMBER 1961

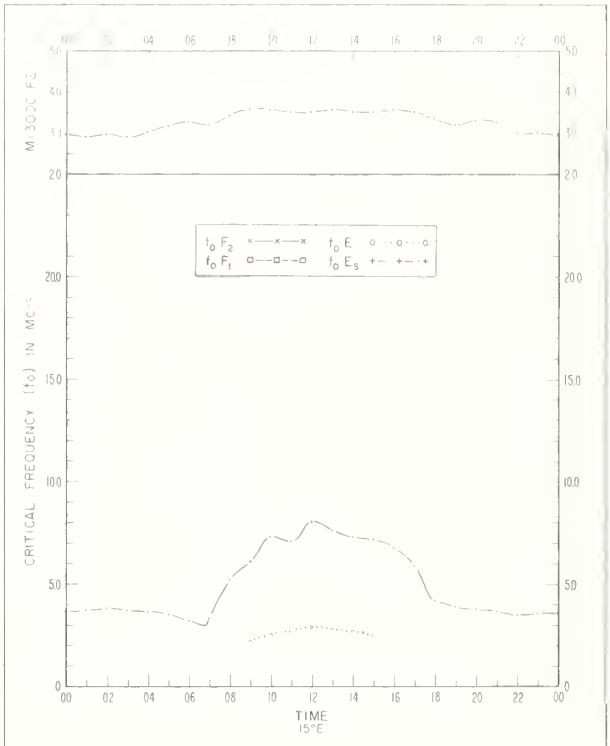


Fig. 40. SOTTENS, SWITZERLAND
46.6°N, 6.7°E NOVEMBER 1961

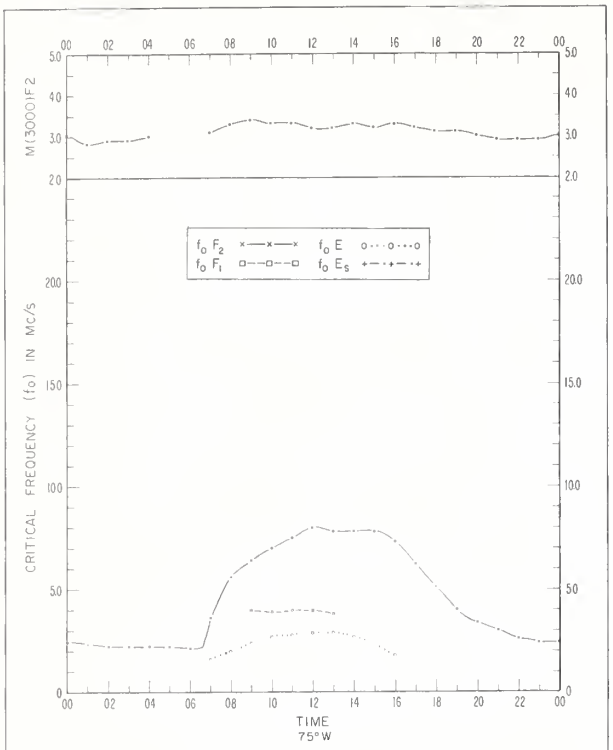


Fig 41. OTTAWA, CANADA
45.4°N, 75.9°W
NOVEMBER 1961

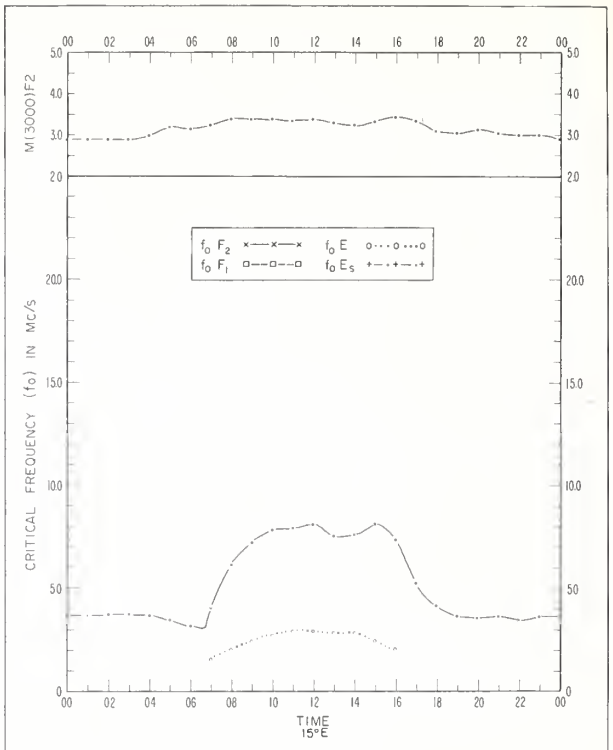


Fig 42 ROME, ITALY
41.8°N, 12.5°E
NOVEMBER 1961

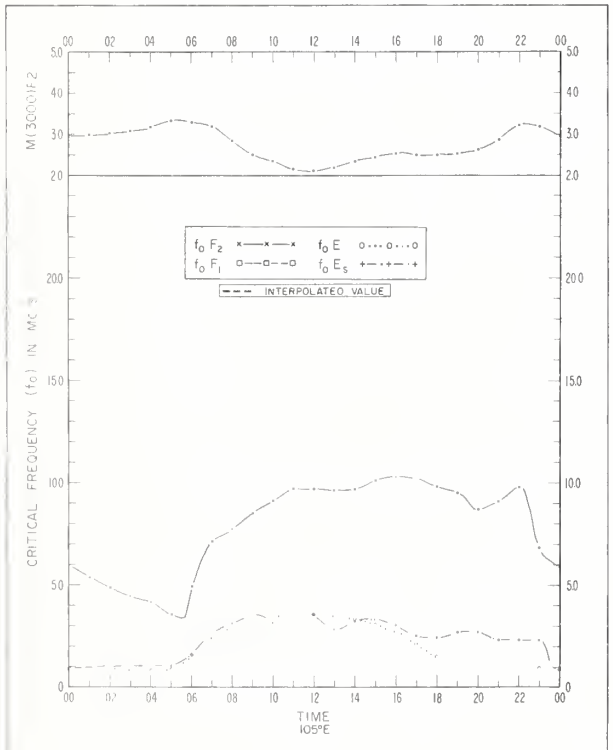


Fig 43 SINGAPORE, BRITISH MALAYA
1.3°N, 103.8°E
NOVEMBER 1961

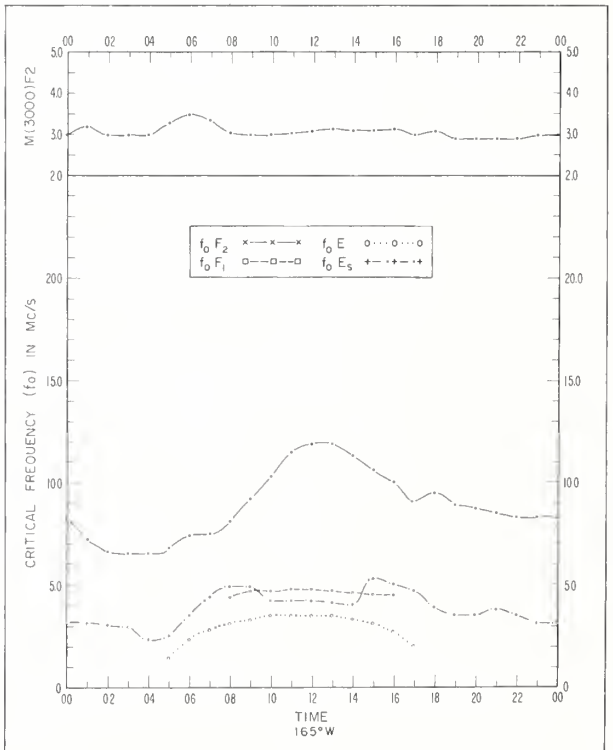


Fig.44 RAROTONGA, COOK IS.
21.2°S, 159.8°W
NOVEMBER 1961

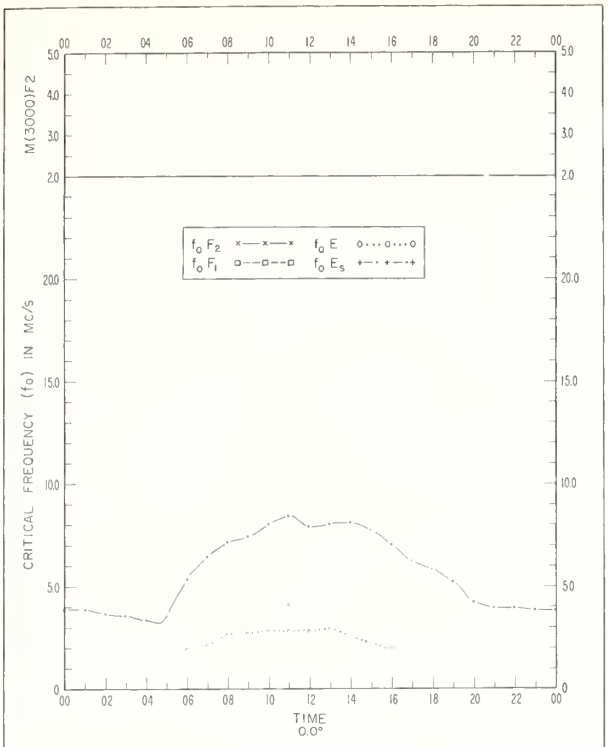


Fig 45. PRUHONICE, CZECHOSLOVAKIA
50.0°N, 14.6°E OCTOBER 1961

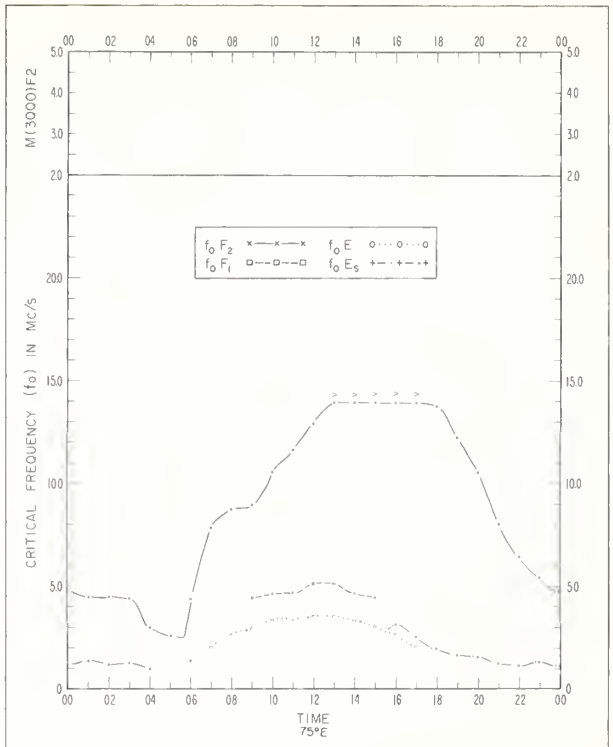


Fig 46. AHMEDABAD, INDIA
23.0°N, 72.6°E OCTOBER 1961

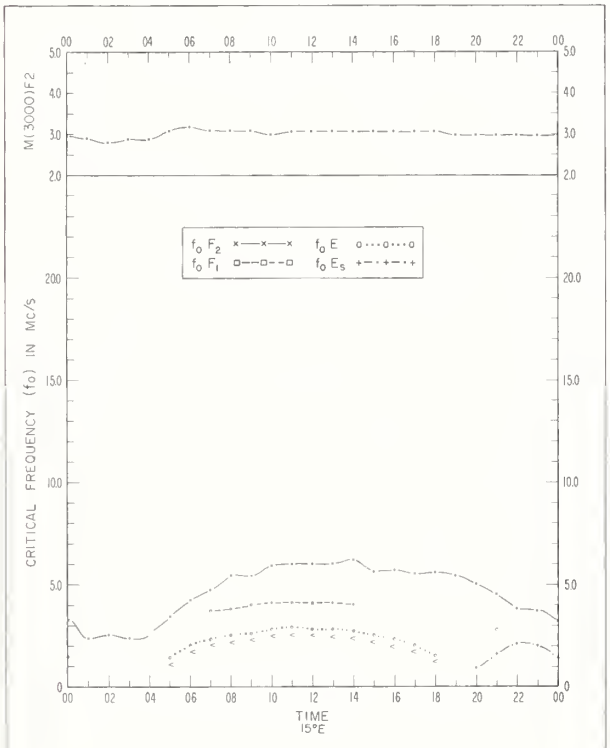


Fig 47. LULEA, SWEDEN
65.6°N, 22.1°E SEPTEMBER 1961

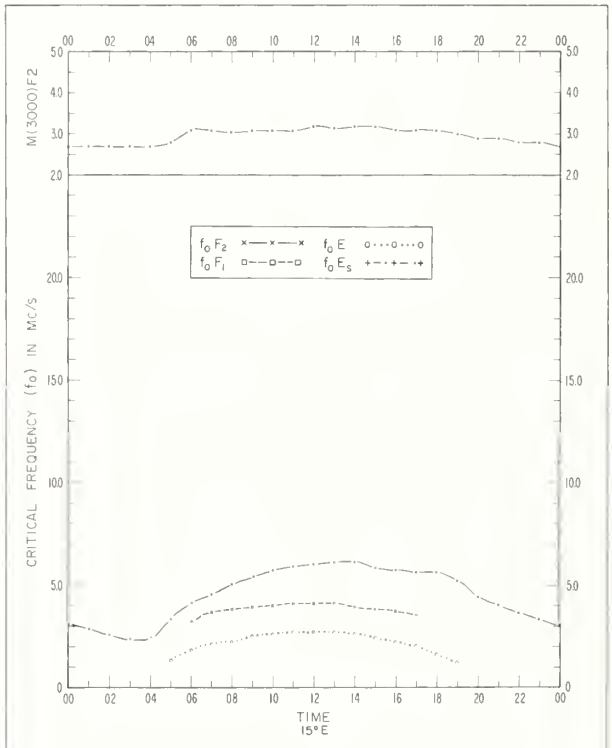


Fig. 48. LYCKSELE, SWEDEN
64.7°N, 18.8°E SEPTEMBER 1961

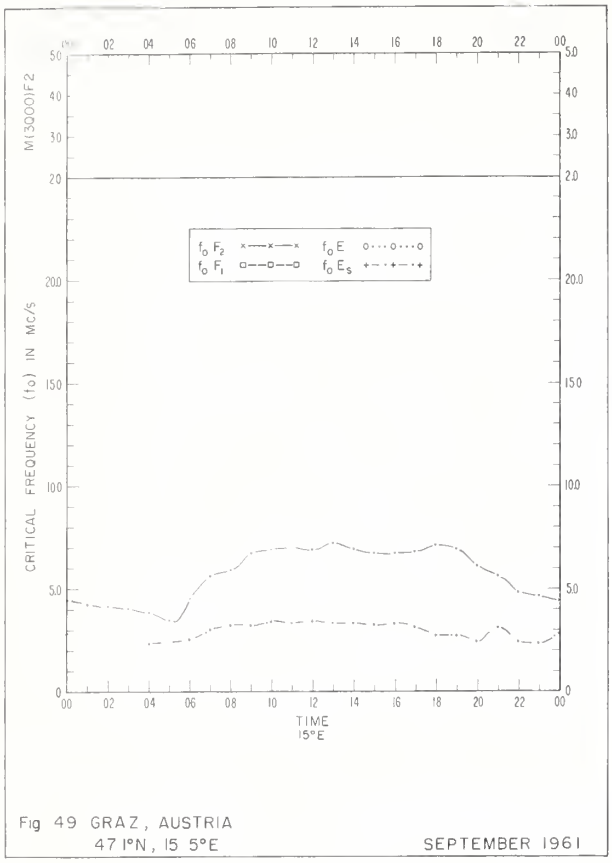


Fig 49 GRAZ, AUSTRIA
47 1°N, 15 5°E
SEPTEMBER 1961

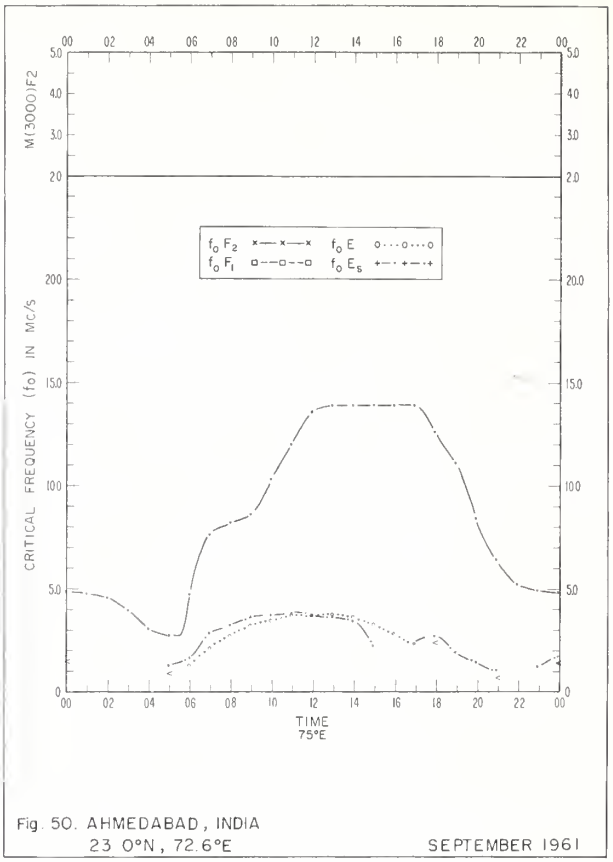


Fig. 50. AHMEDABAD, INDIA
23 0°N, 72.6°E
SEPTEMBER 1961

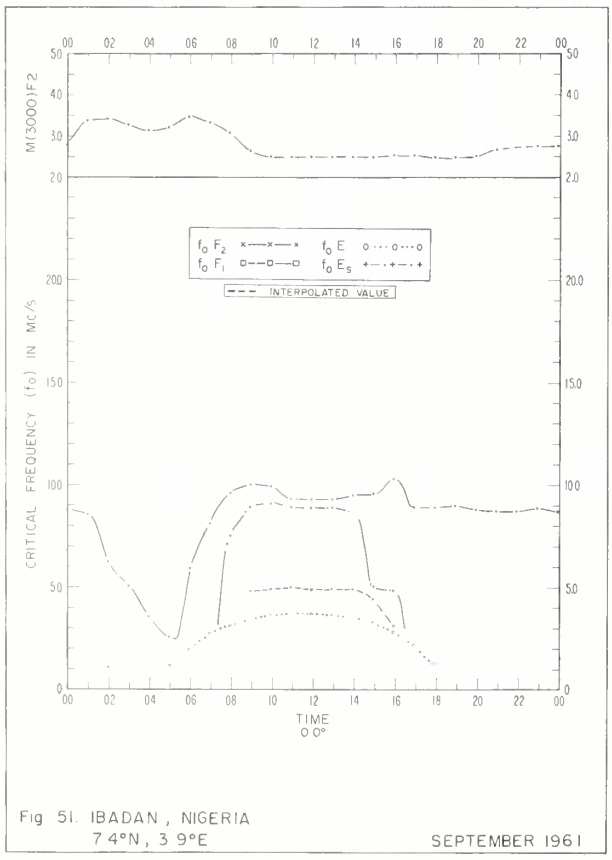


Fig 51. IBADAN, NIGERIA
7 4°N, 3 9°E
SEPTEMBER 1961

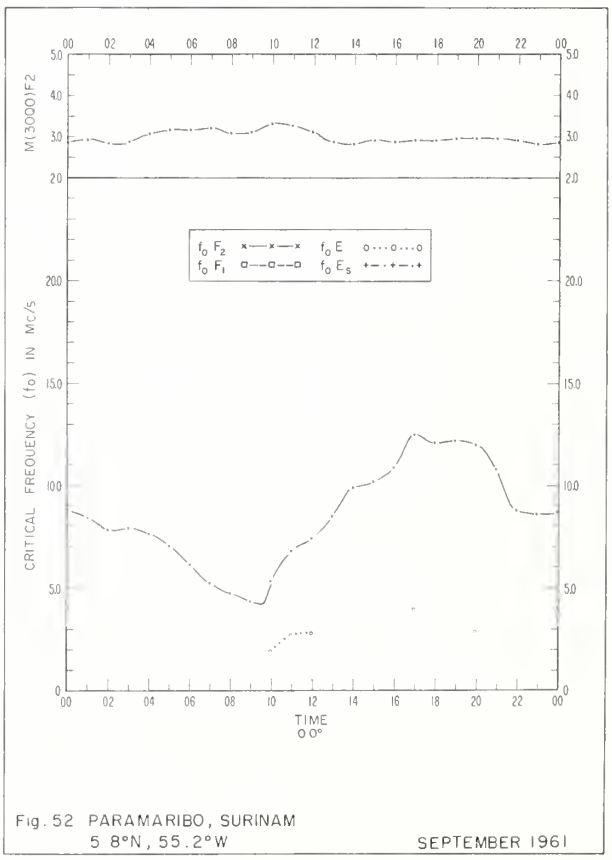


Fig. 52 PARAMARIBO, SURINAM
5 8°N, 55.2°W
SEPTEMBER 1961

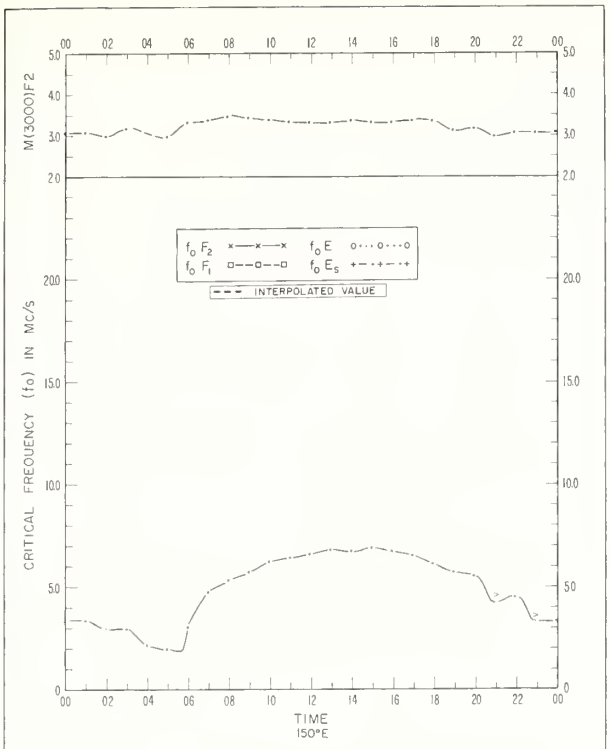


Fig. 53. HOBART, TASMANIA
42.9°S, 147.2°E
SEPTEMBER 1961

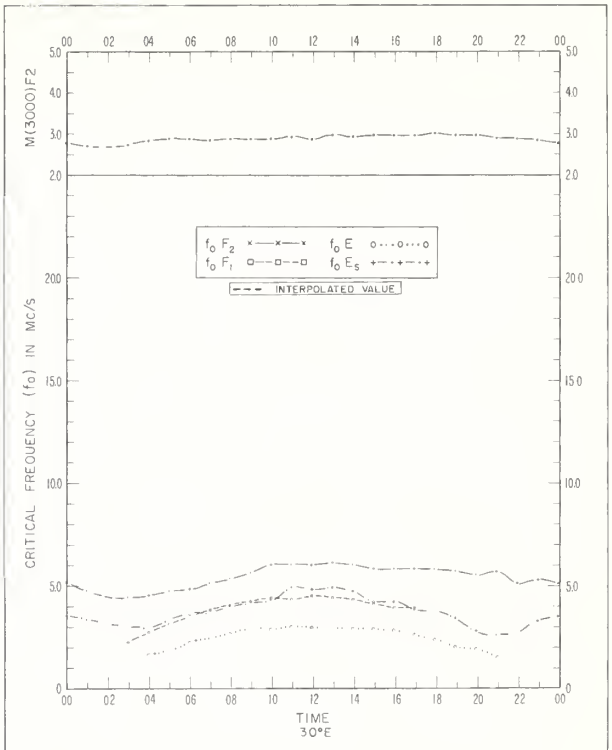


Fig 54 SODANKYLA, FINLAND
67.4°N, 26.6°E
AUGUST 1961

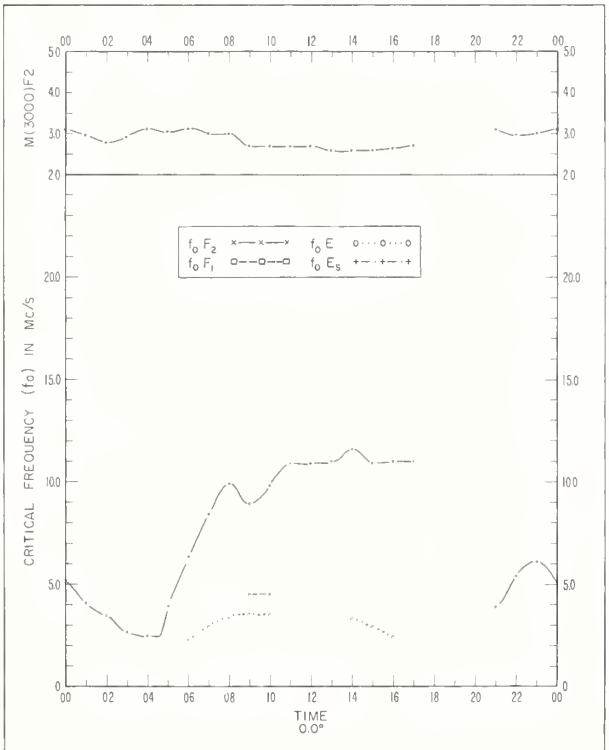


Fig. 55. LEOPOLDVILLE, CONGO
4.4°S, 15.2°E
AUGUST 1961

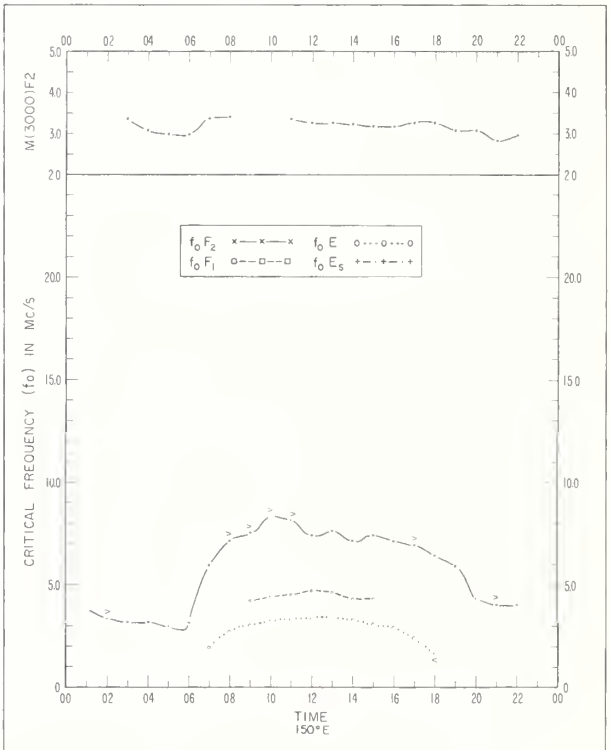


Fig. 56. TOWNSVILLE, AUSTRALIA
19.3°S, 146.7°E
AUGUST 1961

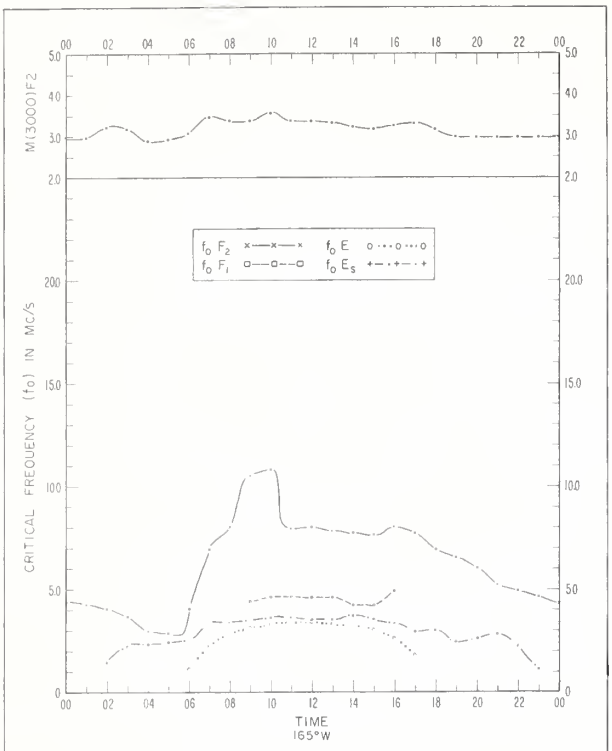


Fig. 57. RAROTONGA, COOK IS.
21.2°S, 159.8°W
AUGUST 1961

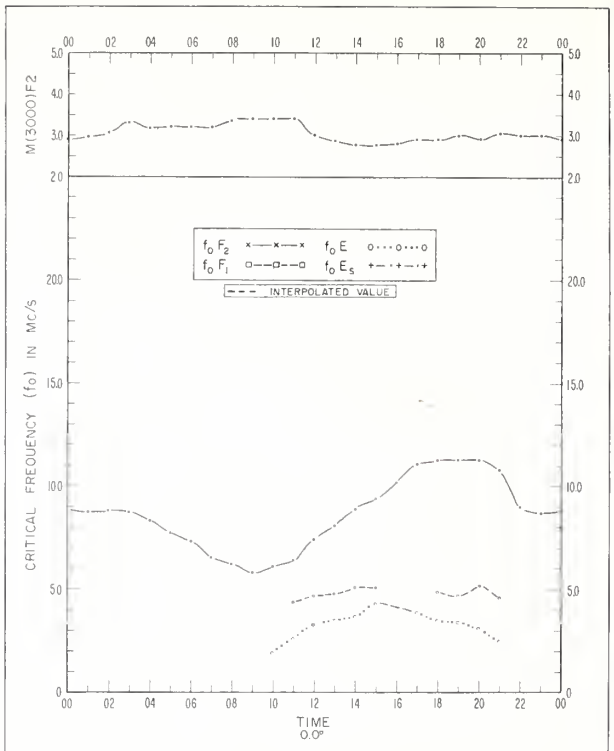


Fig 58. PARAMARIBO, SURINAM
5.8°N, 55.2°W
JUNE 1961

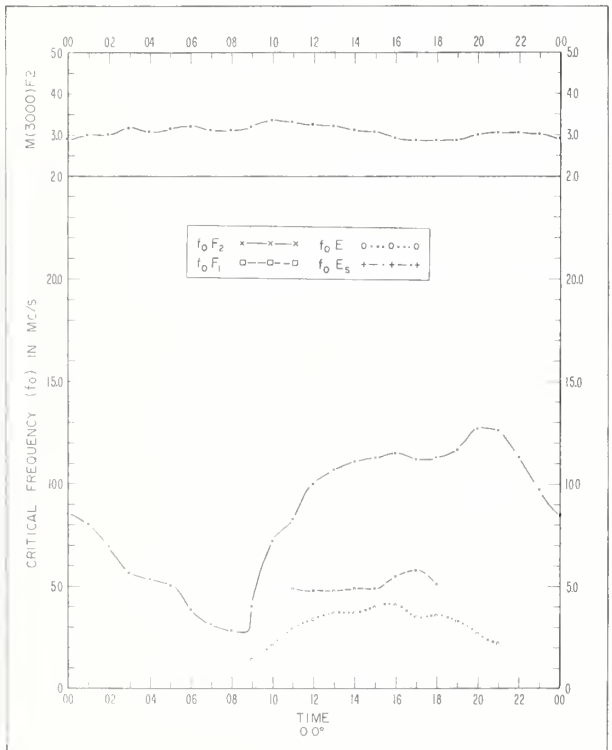


Fig 59 PARAMARIBO, SURINAM
5.8°N, 55.2°W
FEBRUARY 1961

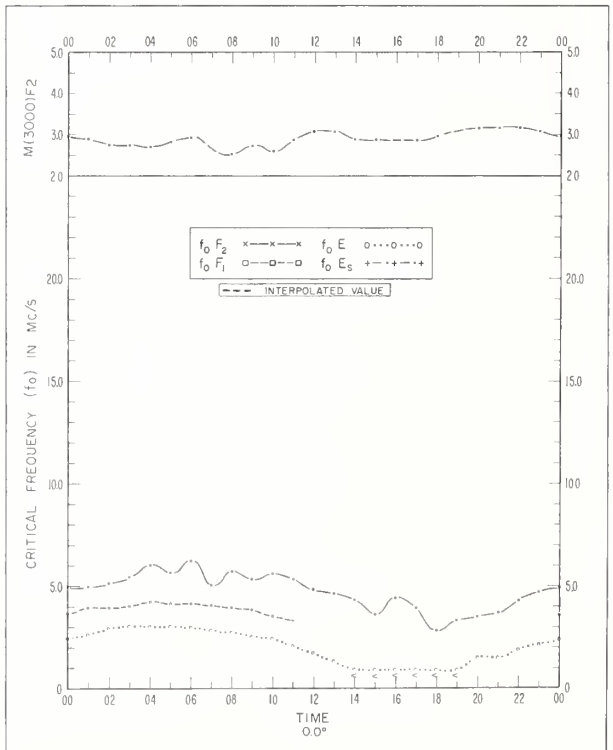


Fig 60. WILKES STATION, ANTARCTICA
66.3°S, 110.5°E
FEBRUARY 1961

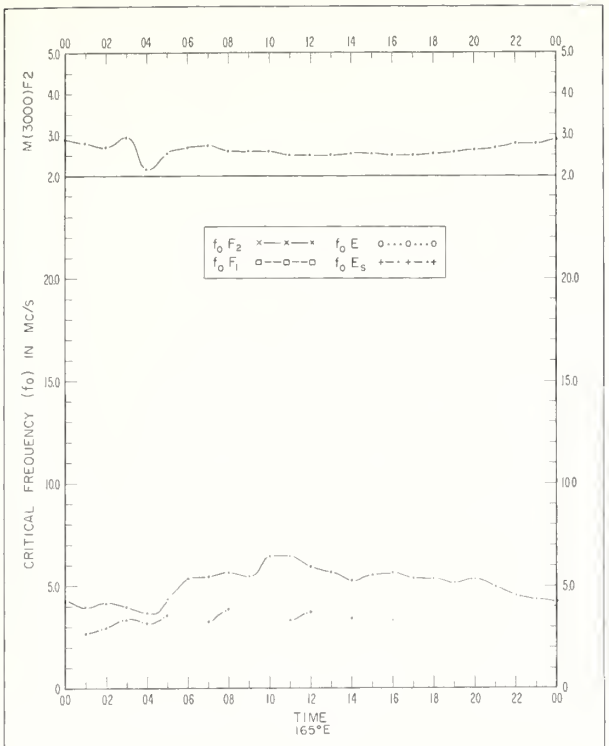


Fig. 61. CAPE HALLETT, ANTARCTICA
72.3°S, 170.2°E DECEMBER 1960

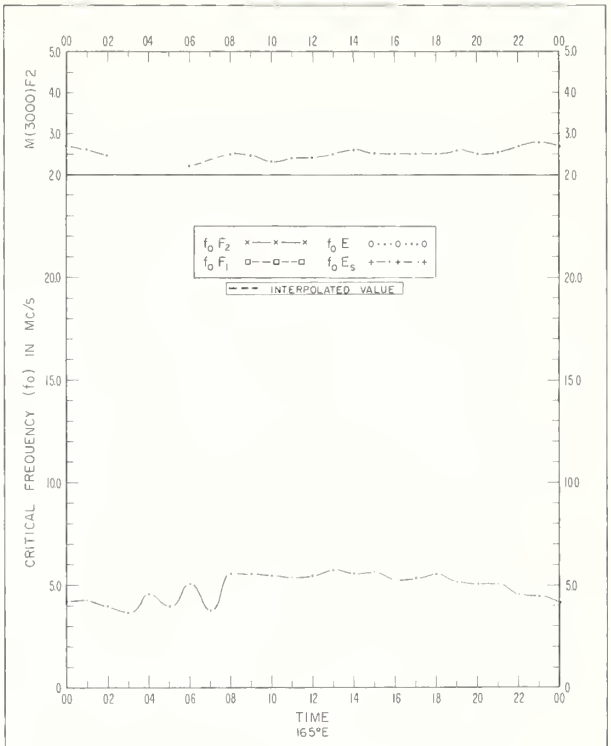


Fig. 62. SCOTT BASE, ANTARCTICA
77.9°S, 166.8°E DECEMBER 1960

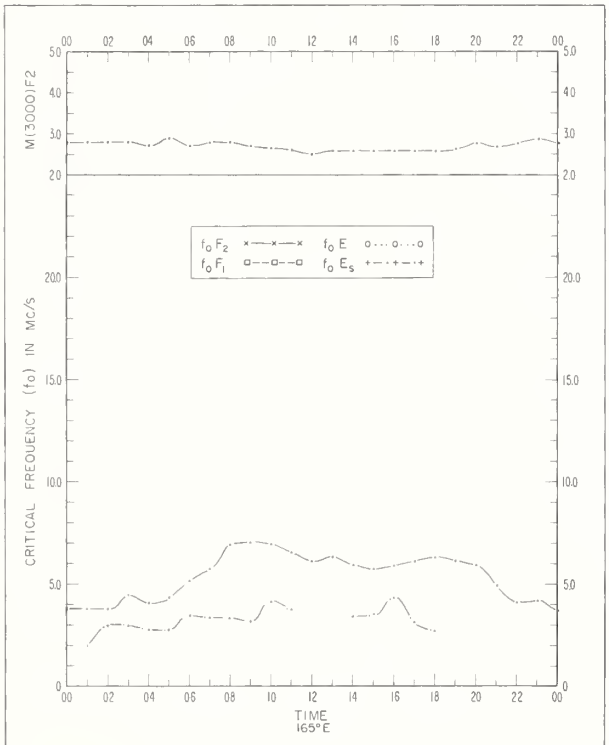


Fig. 63 CAPE HALLETT, ANTARCTICA
72.3°S, 170.2°E NOVEMBER 1960

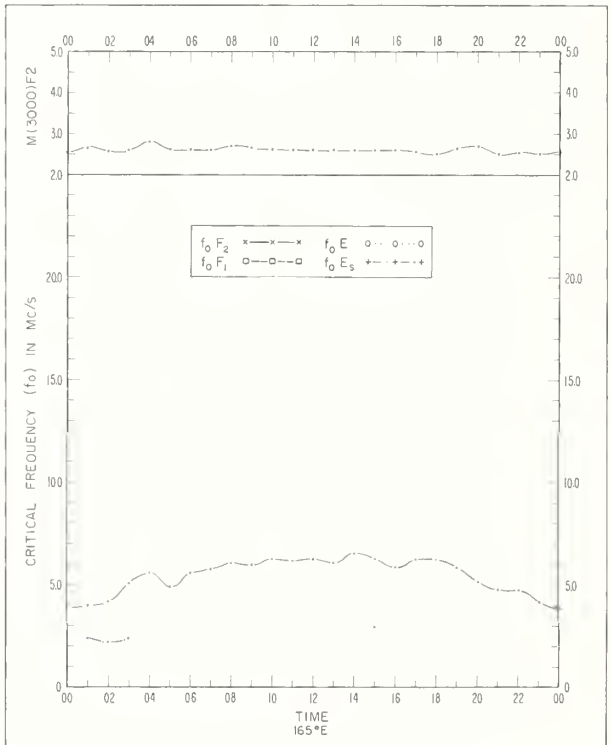


Fig. 64 SCOTT BASE, ANTARCTICA
77.9°S, 166.8°E NOVEMBER 1960

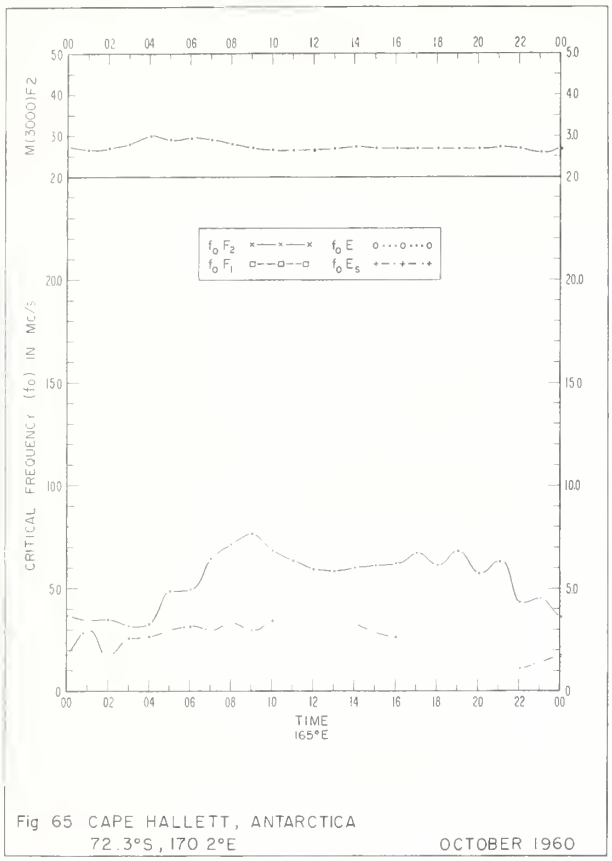


Fig 65 CAPE HALLETT, ANTARCTICA
72.3°S, 170.2°E OCTOBER 1960

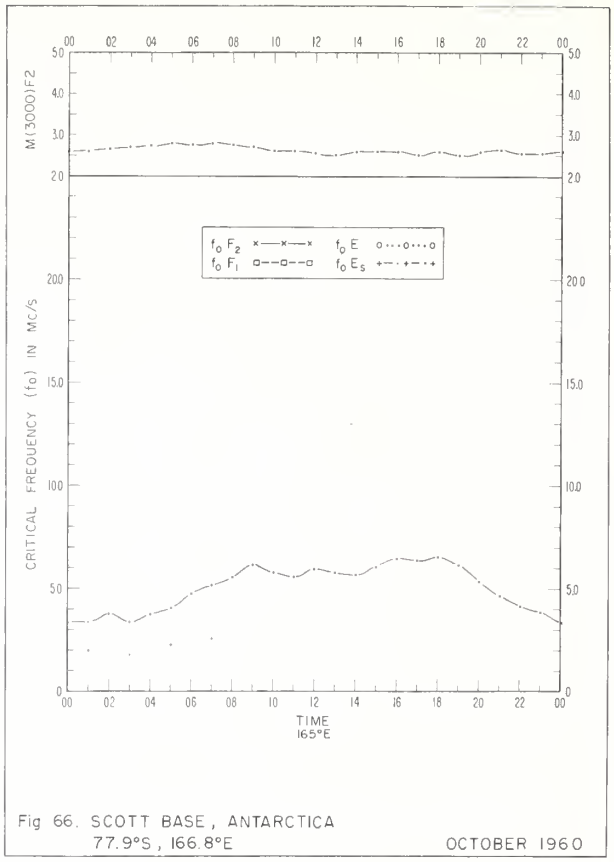


Fig 66. SCOTT BASE, ANTARCTICA
77.9°S, 166.8°E OCTOBER 1960

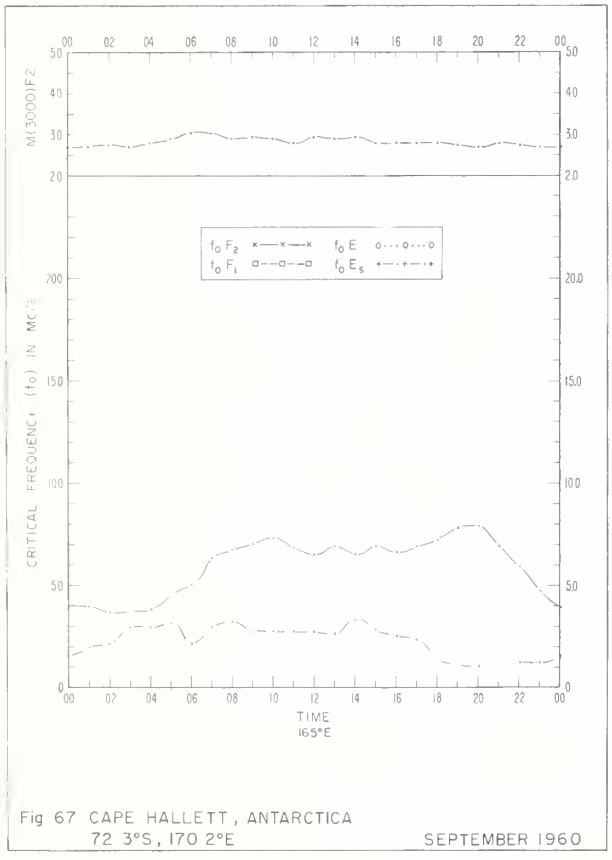


Fig 67 CAPE HALLETT, ANTARCTICA
72.3°S, 170.2°E SEPTEMBER 1960

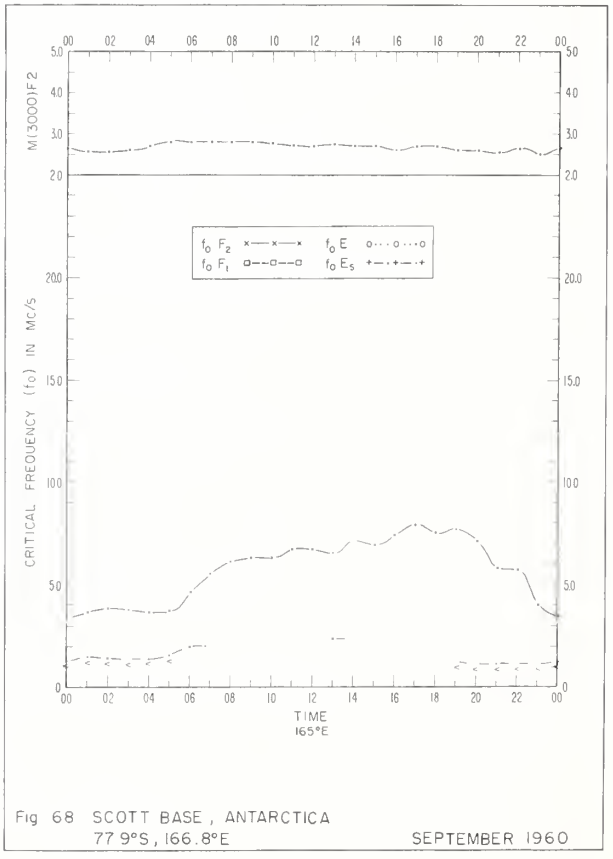


Fig 68 SCOTT BASE, ANTARCTICA
77.9°S, 166.8°E SEPTEMBER 1960

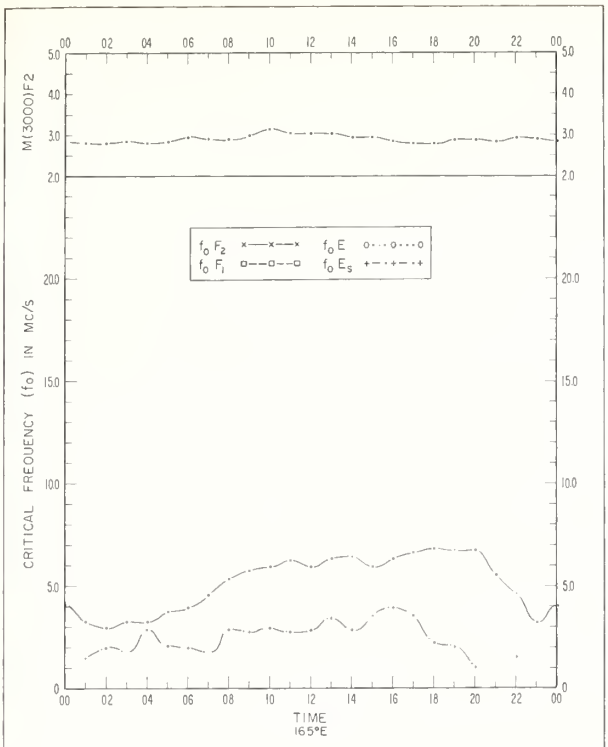


Fig 69 CAPE HALLETT, ANTARCTICA
72.3°S, 170.2°E AUGUST 1960

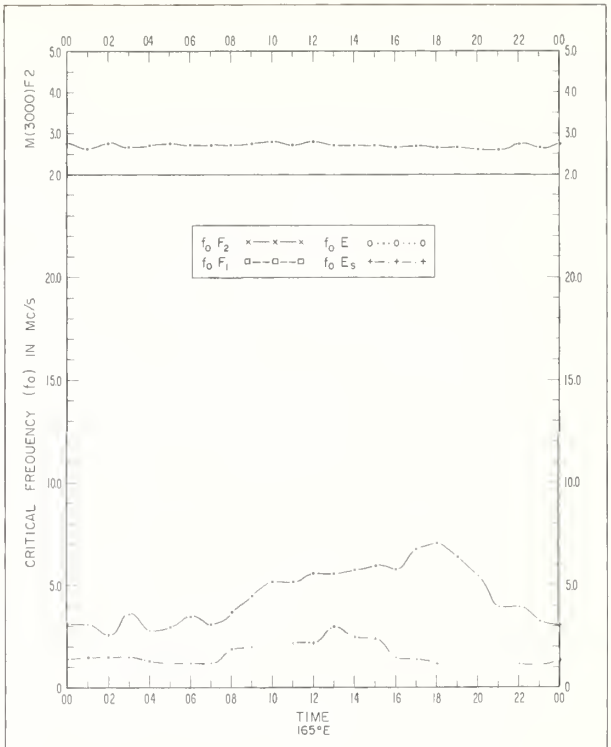


Fig 70 SCOTT BASE, ANTARCTICA
77.9°S, 166.8°E AUGUST 1960

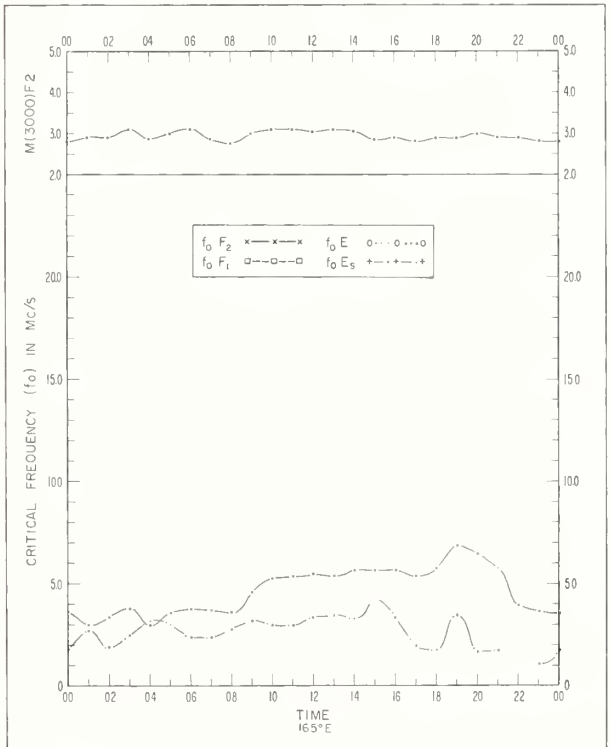


Fig 71. CAPE HALLETT, ANTARCTICA
72.3°S, 170.2°E JULY 1960

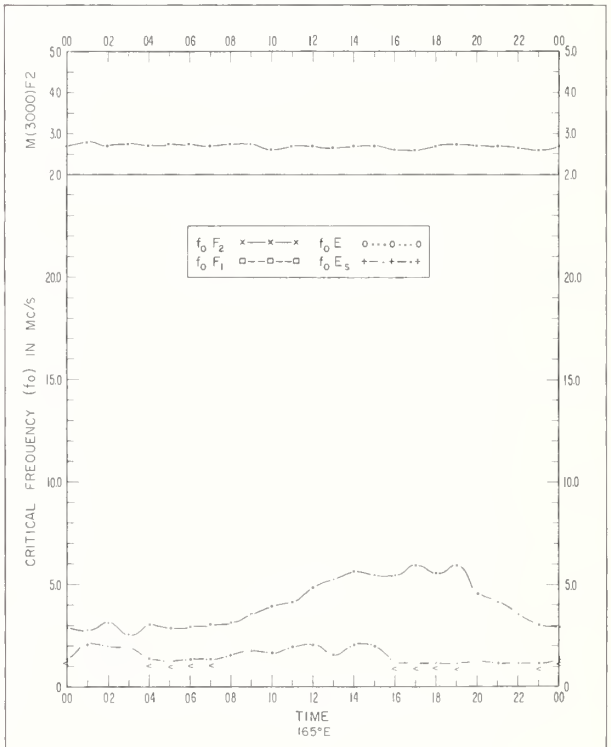


Fig 72. SCOTT BASE, ANTARCTICA
77.9°S, 166.8°E JULY 1960

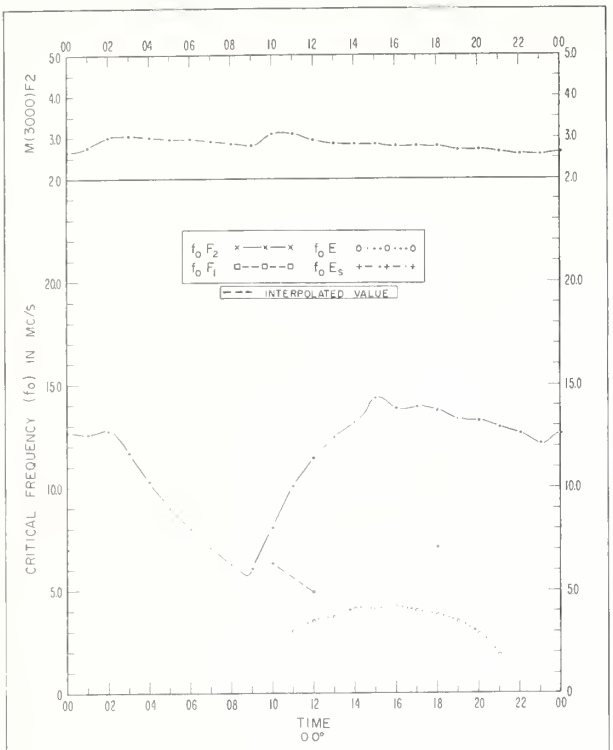


Fig 73. PARAMARIBO, SURINAM
5.8°N, 55.2°W
APRIL 1960

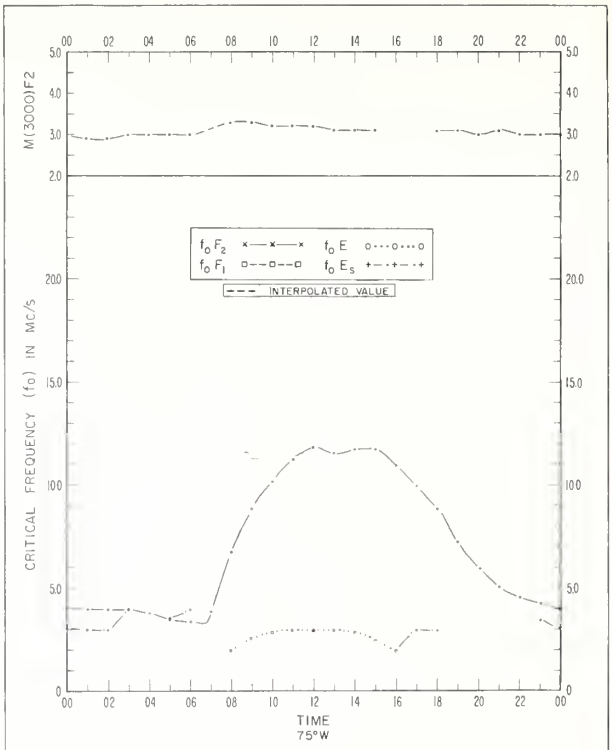


Fig 74. OTTAWA, CANADA
45.4°N, 75.9°W
DECEMBER 1959

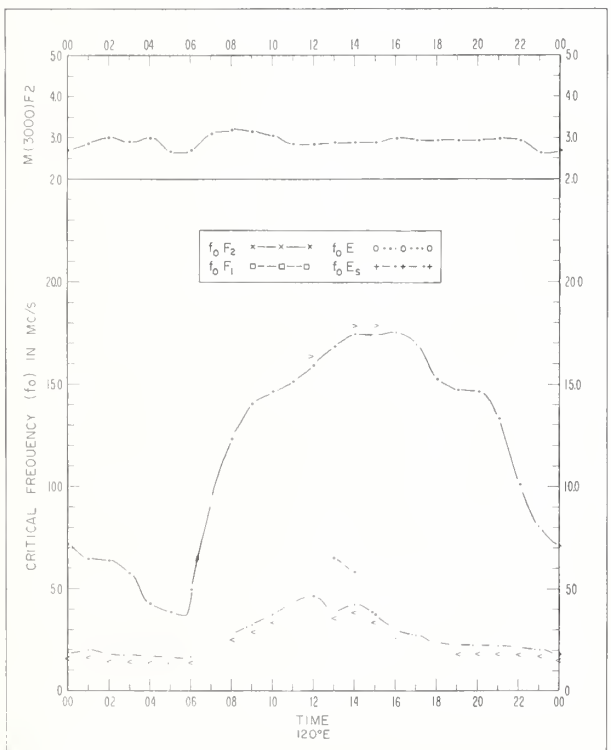


Fig 75. TAIPEI (TAIWAN), CHINA
25.0°N, 121.5°E
DECEMBER 1959

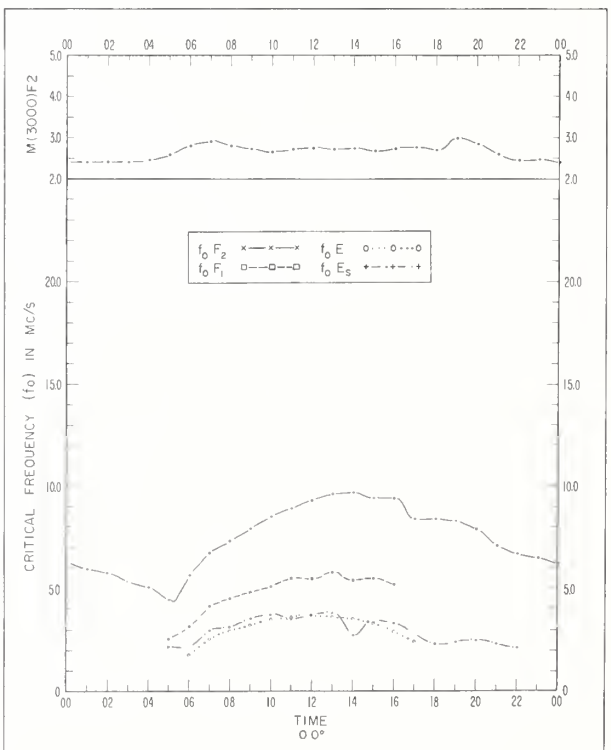


Fig. 76. POITIERS, FRANCE
46.6°N, 0.3°E
SEPTEMBER 1959

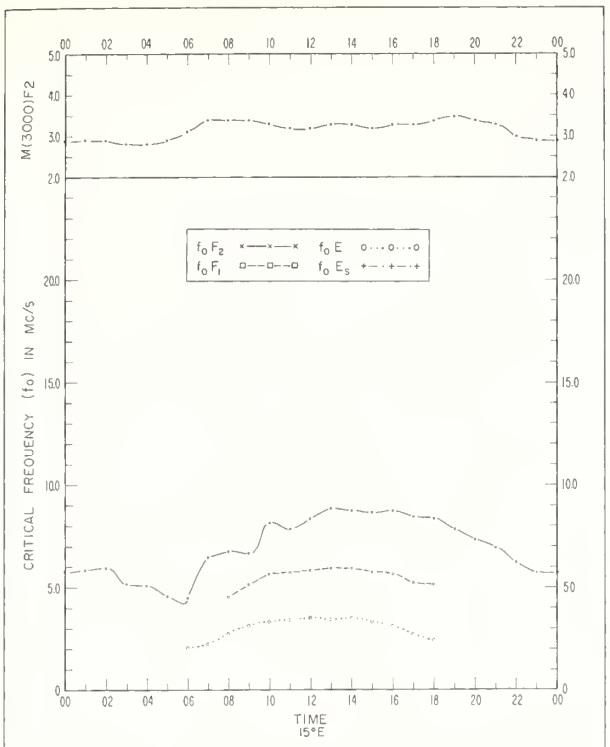


Fig 77 SOTTENS, SWITZERLAND
46.6°N, 6.7°E SEPTEMBER 1959

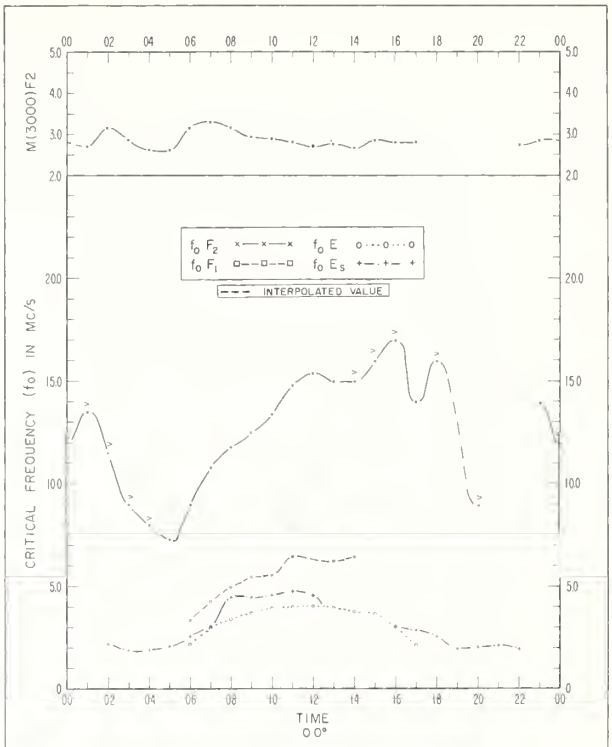


Fig 78 TAMANRASSET, ALGERIA
22.8°N, 5.5°E SEPTEMBER 1959

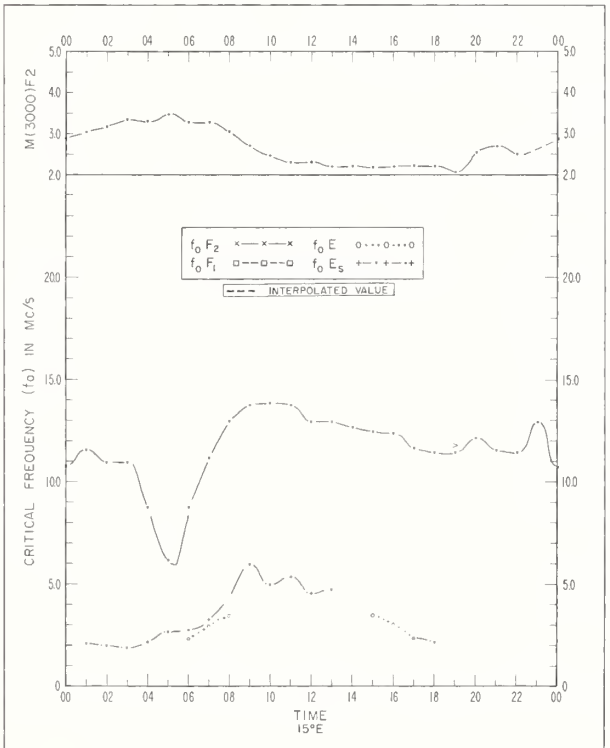


Fig 79. BANGUI, CENTRAL AFRICAN REPUBLIC
4.6°N, 18.6°E SEPTEMBER 1959

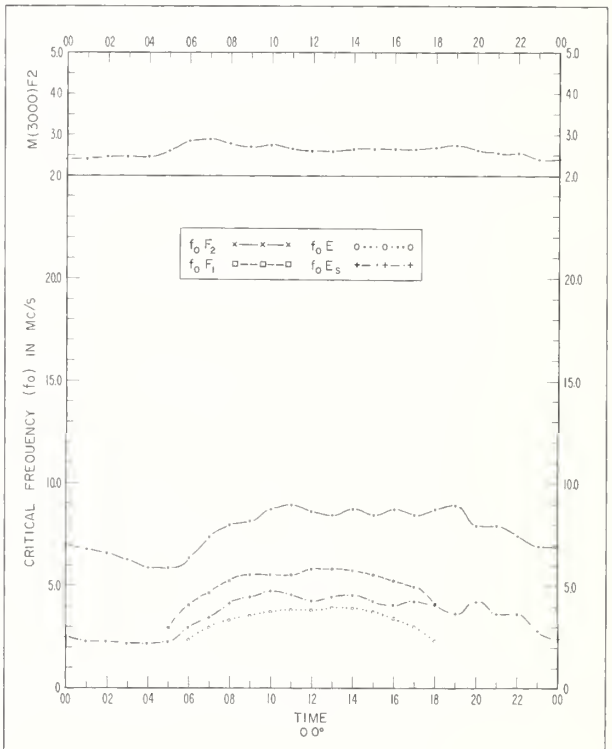


Fig. 80. POITIERS, FRANCE
46.6°N, 0.3°E AUGUST 1959

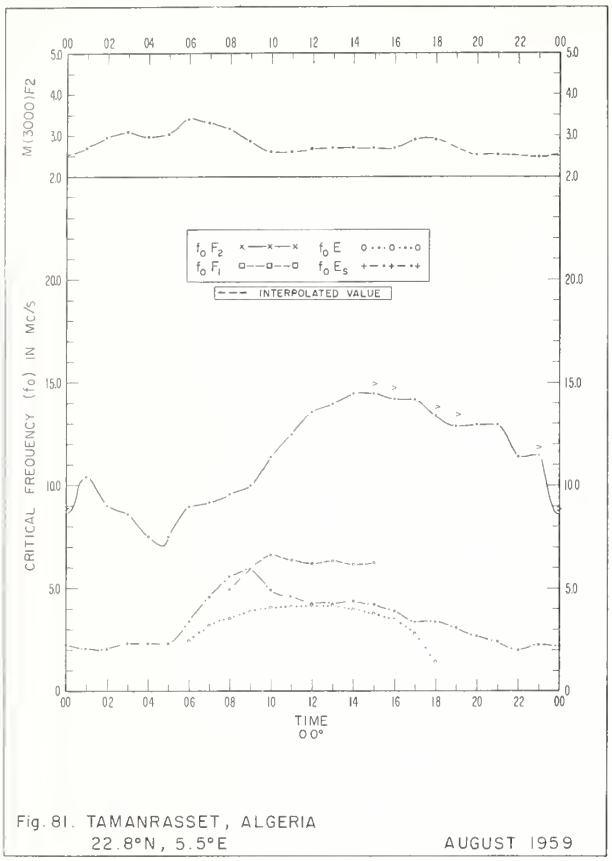


Fig. 81. TAMANRASSET, ALGERIA
22.8°N, 5.5°E AUGUST 1959

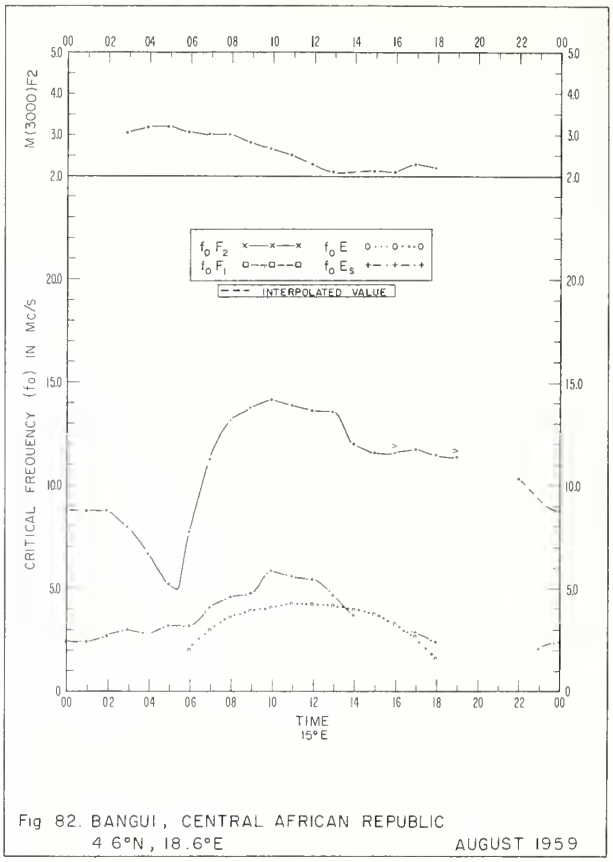


Fig 82. BANGUI, CENTRAL AFRICAN REPUBLIC
4 6°N, 18.6°E AUGUST 1959

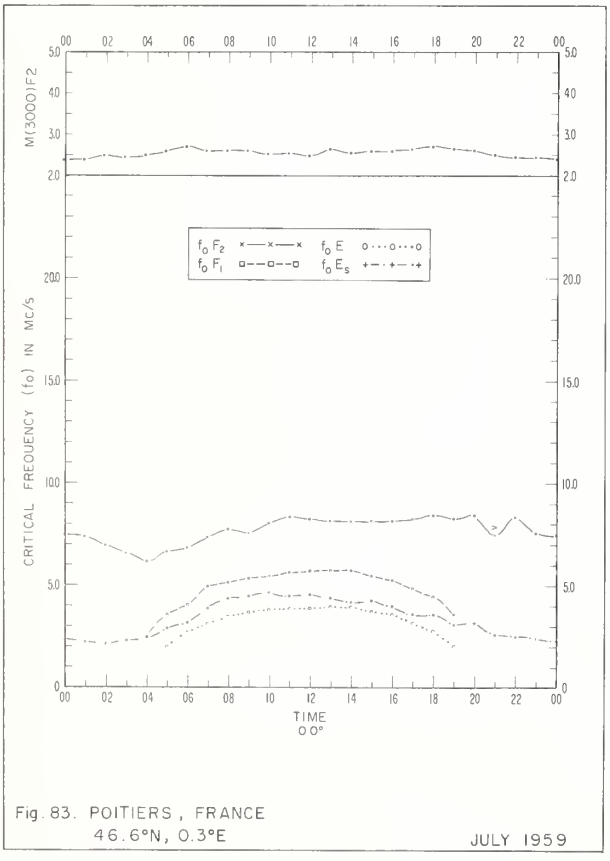


Fig. 83. POITIERS, FRANCE
46.6°N, 0.3°E JULY 1959

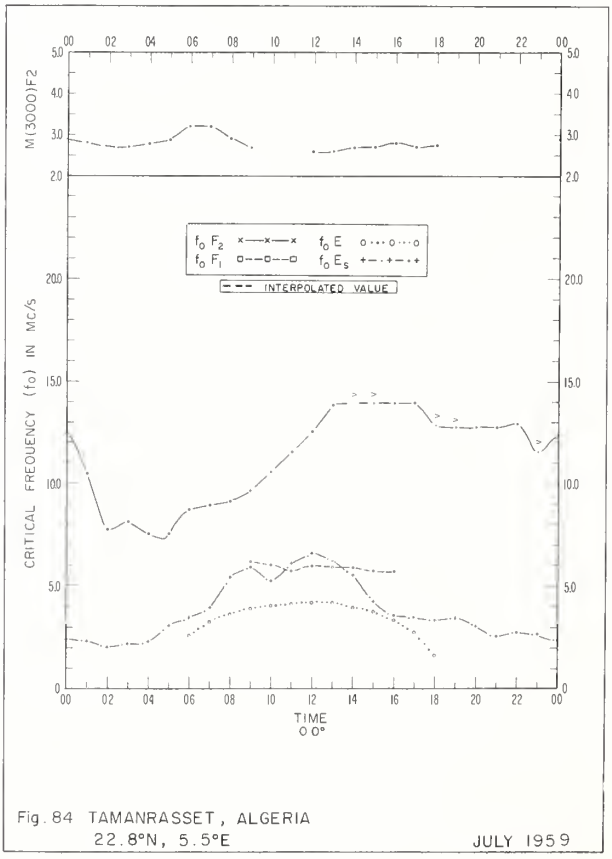


Fig. 84 TAMANRASSET, ALGERIA
22.8°N, 5.5°E JULY 1959

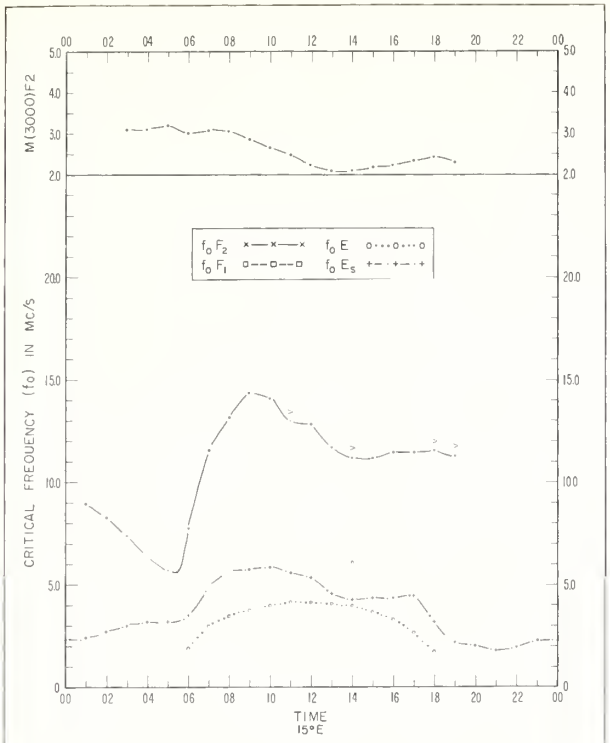


Fig. 85. BANGUI, CENTRAL AFRICAN REPUBLIC
4 6°N, 18 6°E JULY 1959

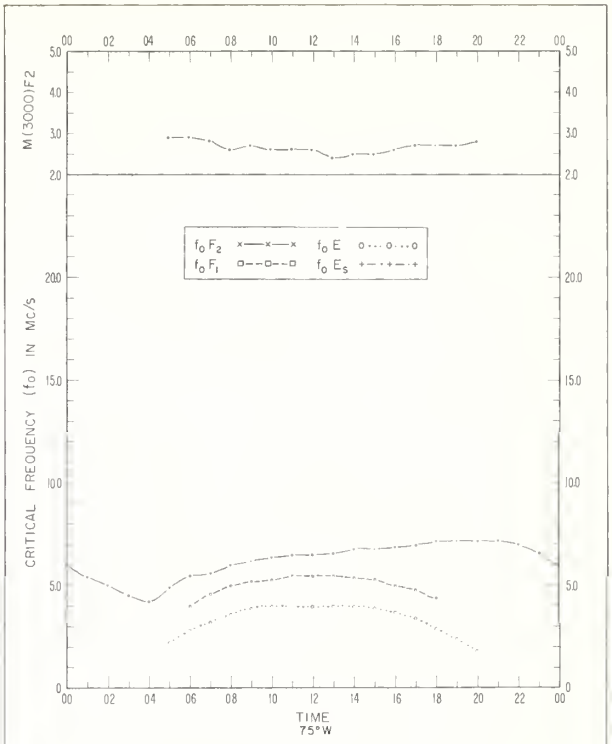


Fig 86. OTTAWA, CANADA
45 4° N, 75.9° W JUNE 1959

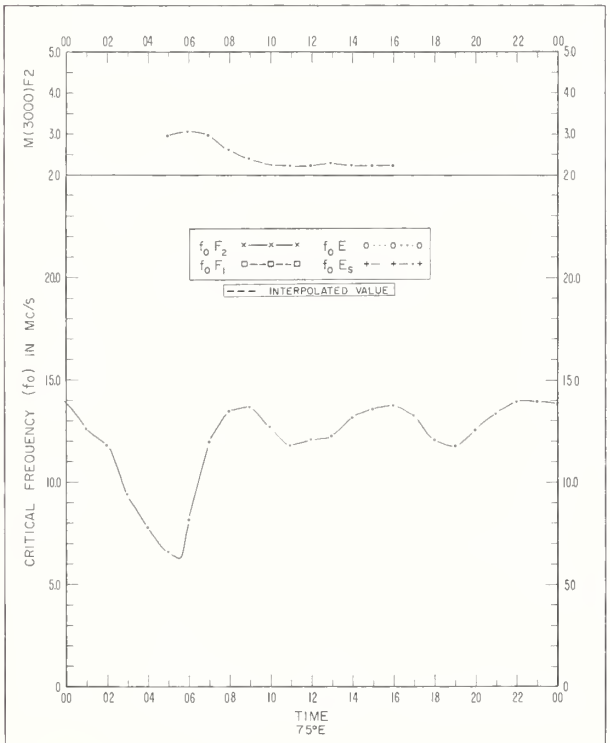


Fig. 87. MADRAS, INDIA
13.1°N, 80.3°E MARCH 1959

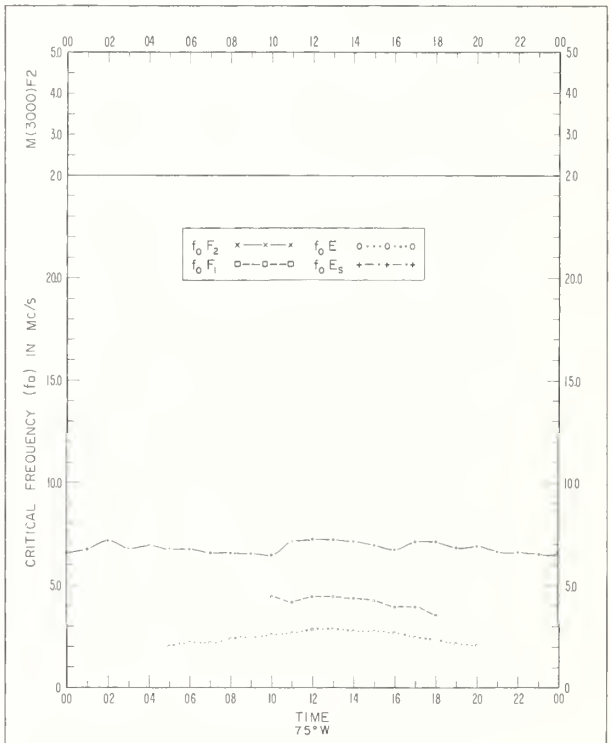


Fig. 88 EUREKA, CANADA
80.0°N, 85.9° W SEPTEMBER 1958

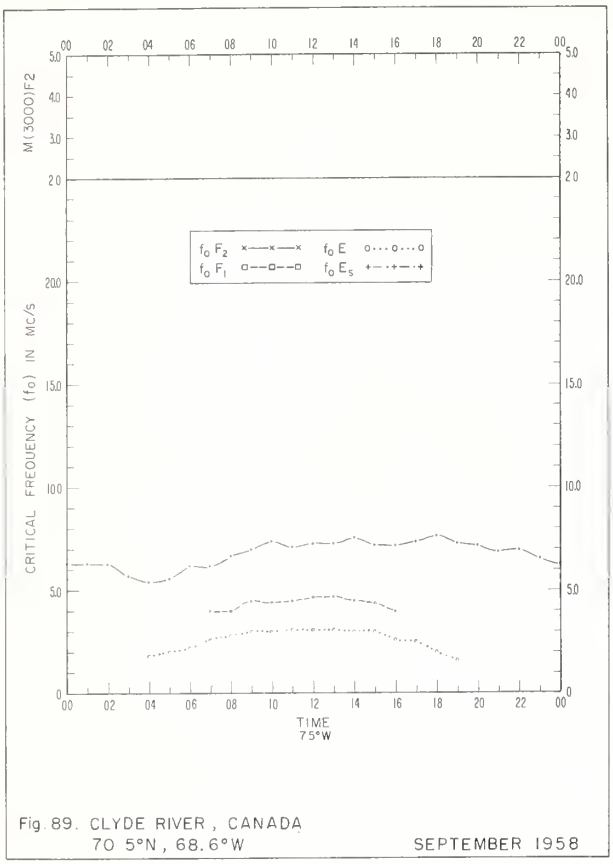


Fig. 89. CLYDE RIVER, CANADA
70 5°N, 68.6°W
SEPTEMBER 1958

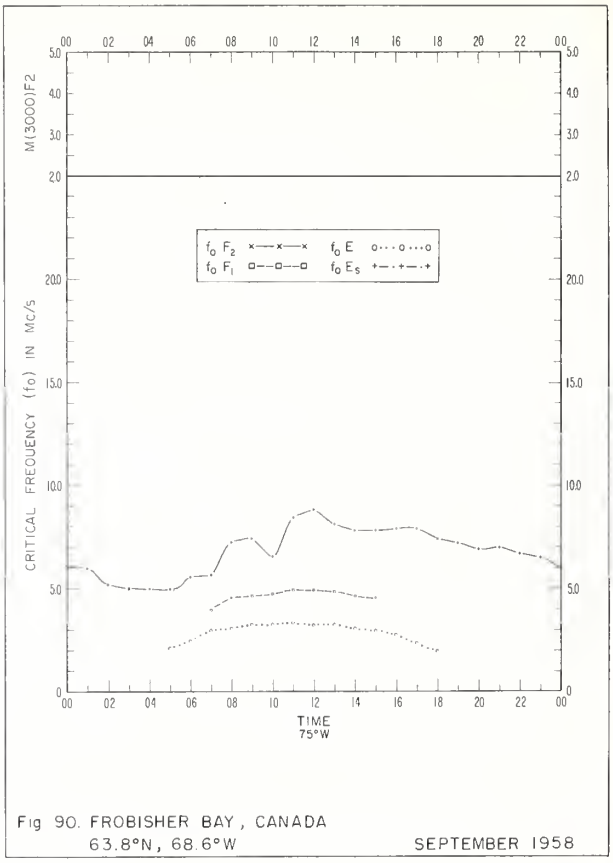


Fig 90. FROBISHER BAY, CANADA
63.8°N, 68.6°W
SEPTEMBER 1958

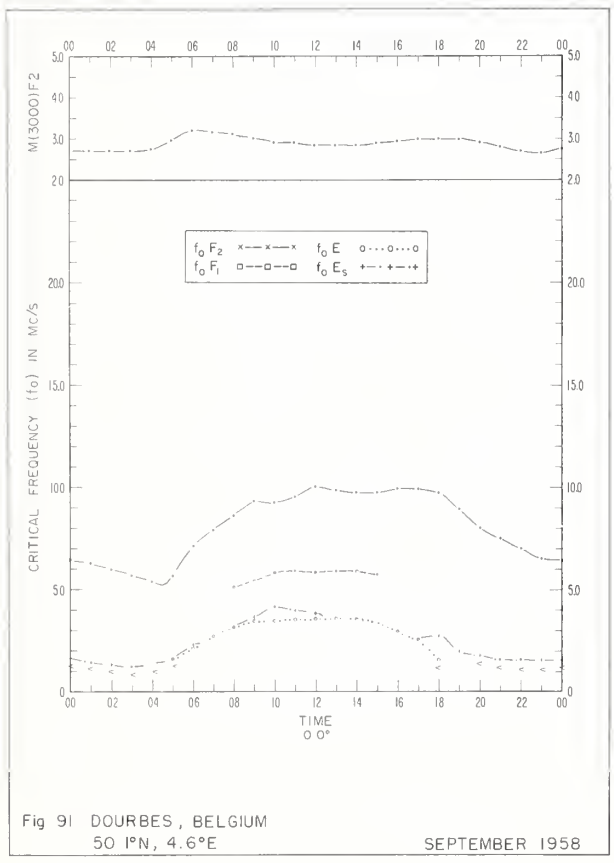


Fig 91 DOURBES, BELGIUM
50 1°N, 4.6°E
SEPTEMBER 1958

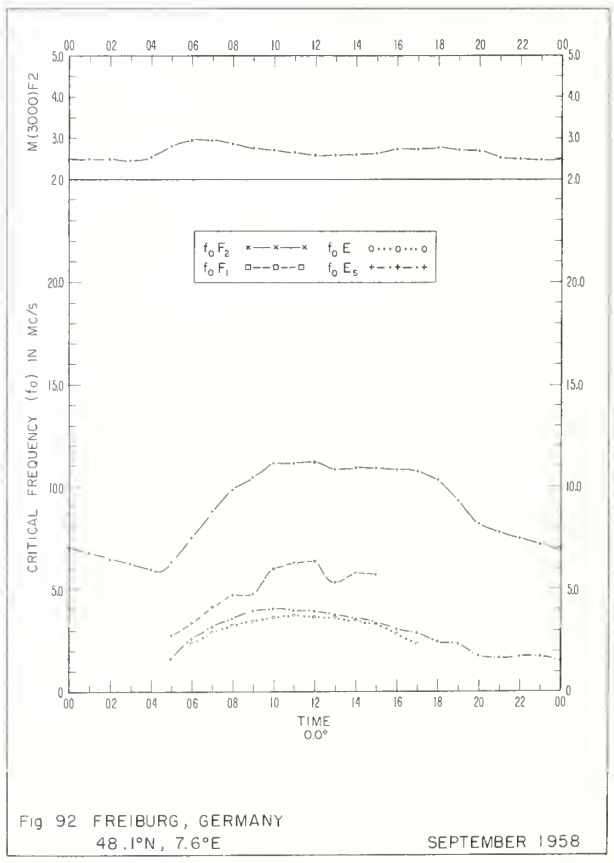


Fig 92 FREIBURG, GERMANY
48.1°N, 7.6°E
SEPTEMBER 1958

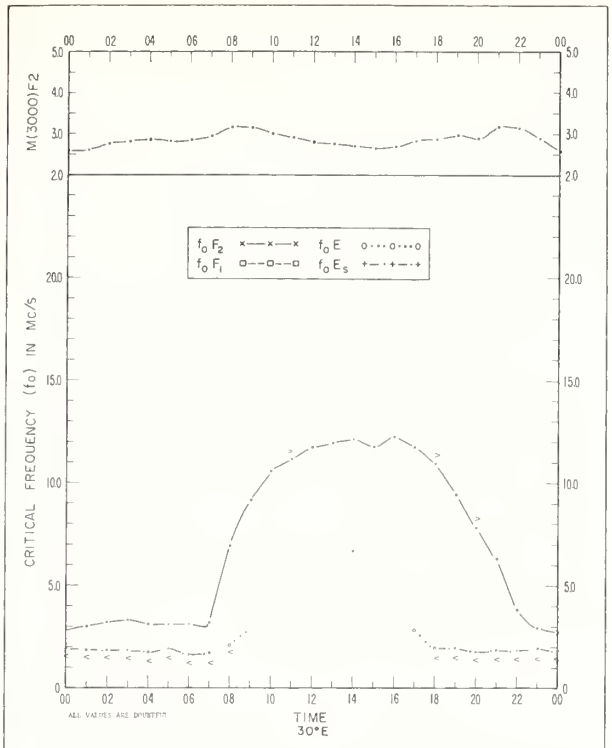


Fig. 93. CAPETOWN, UNION OF S. AFRICA
34.1°S, 18.3°E
AUGUST 1958

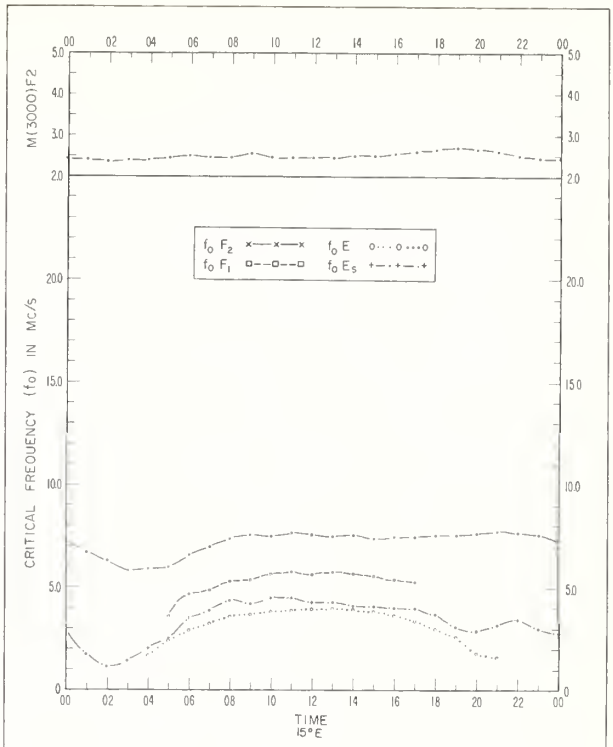


Fig 94 JULIUSRUH/RUGEN, GERMANY
54.6°N, 13 4°E
JULY 1958

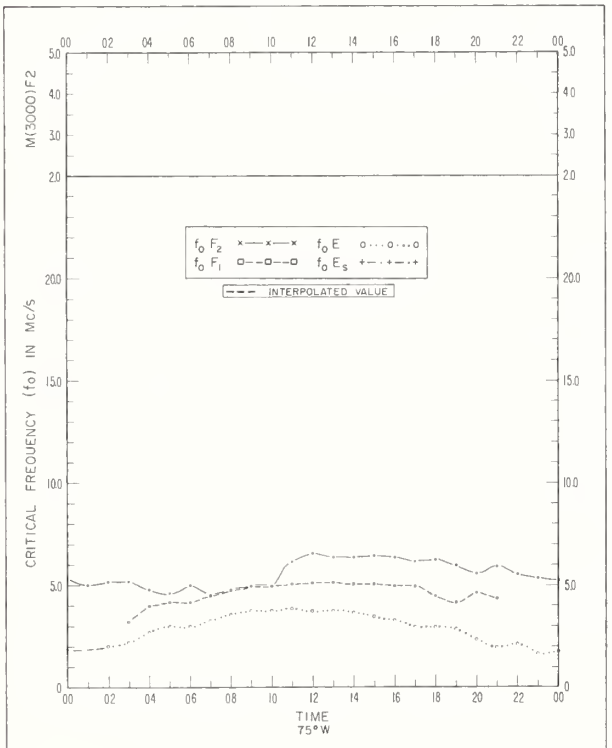


Fig 95. FROBISHER BAY, CANADA
63.8°N, 68 6°W
JUNE 1958

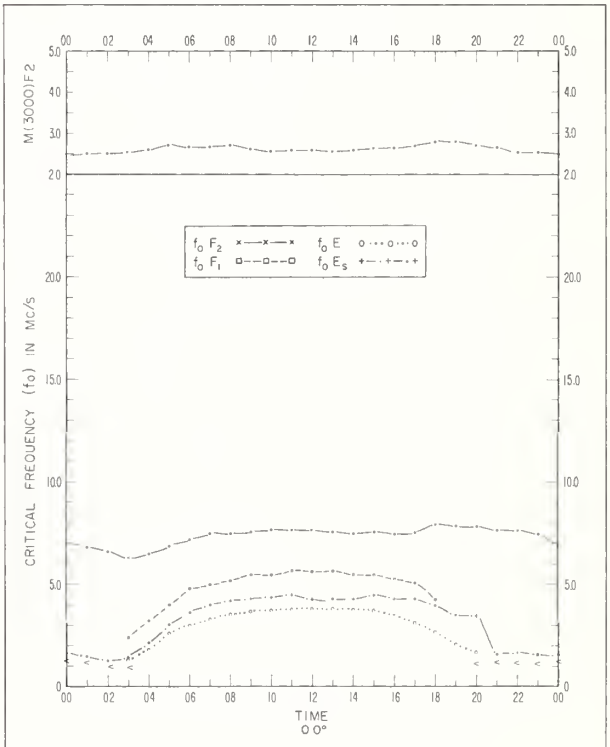


Fig 96. DOURBES, BELGIUM
50 1°N, 4 6°E
JUNE 1958

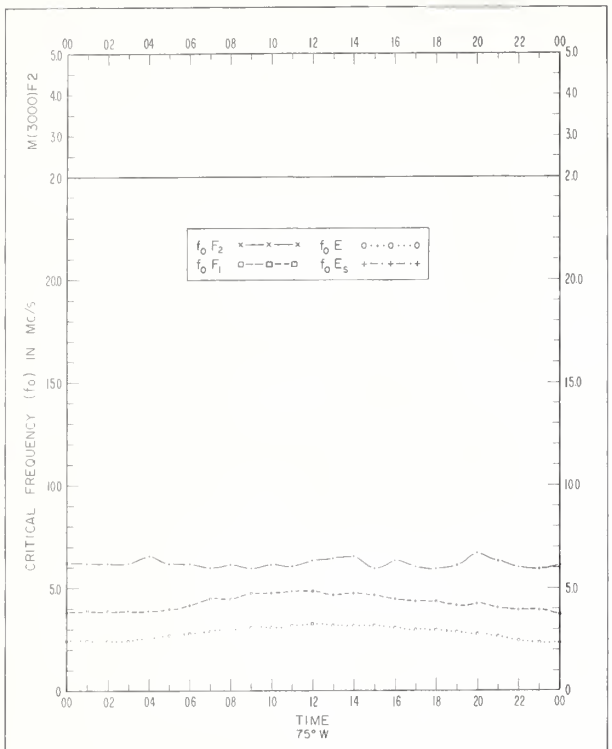


Fig 97 EUREKA, CANADA
80 0°N, 85 9°W
MAY 1958

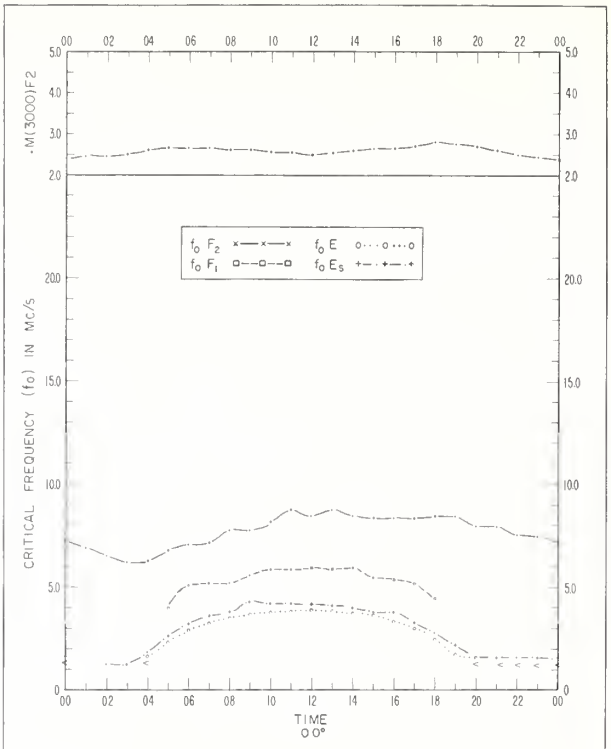


Fig 98 DOURBES, BELGIUM
50 1°N, 4 6°E
MAY 1958

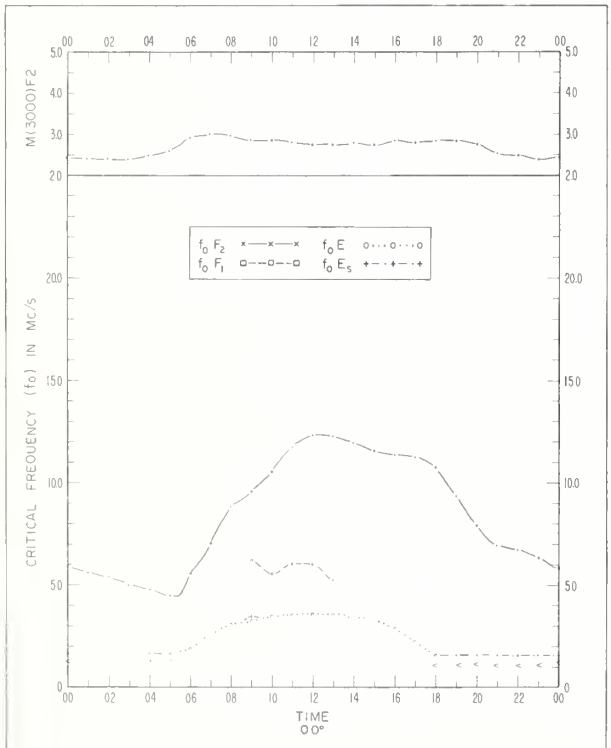


Fig 99 DOURBES, BELGIUM
50 1°N, 4 6°E
MARCH 1958

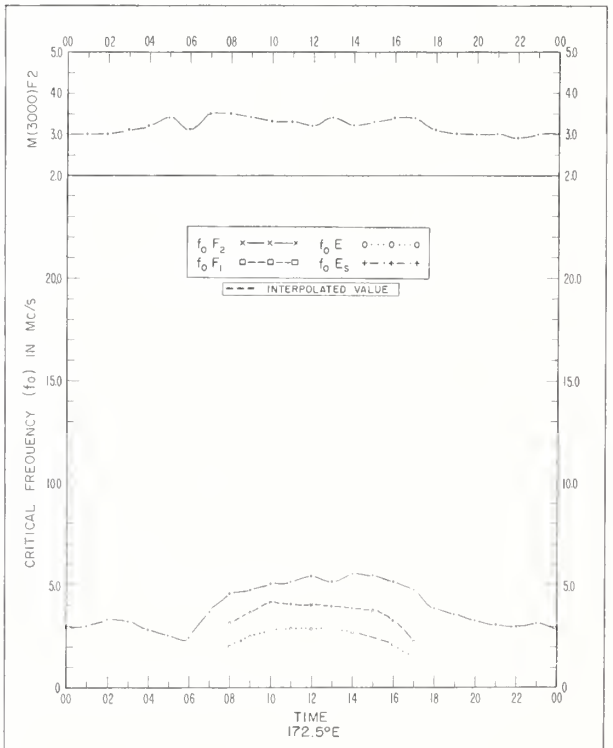


Fig 100. GODLEY HEAD (CHRISTCHURCH), NEW ZEALAND
43 6°S, 172 8°E
AUGUST 1955

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